

Operating instructions

TV

- Connect 42
- Connect 37
- Connect 32

LOEWE.

233-33319.020

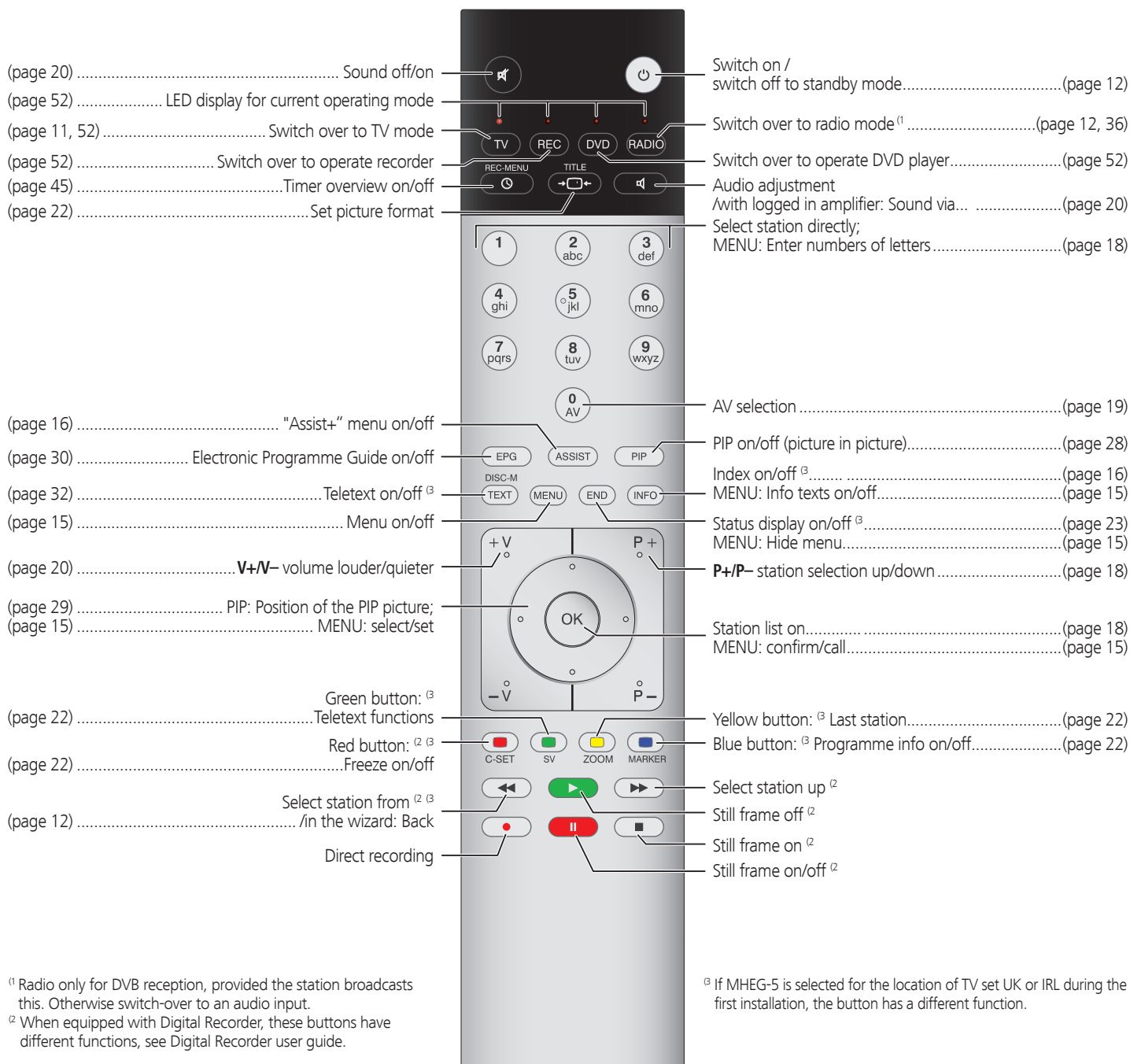


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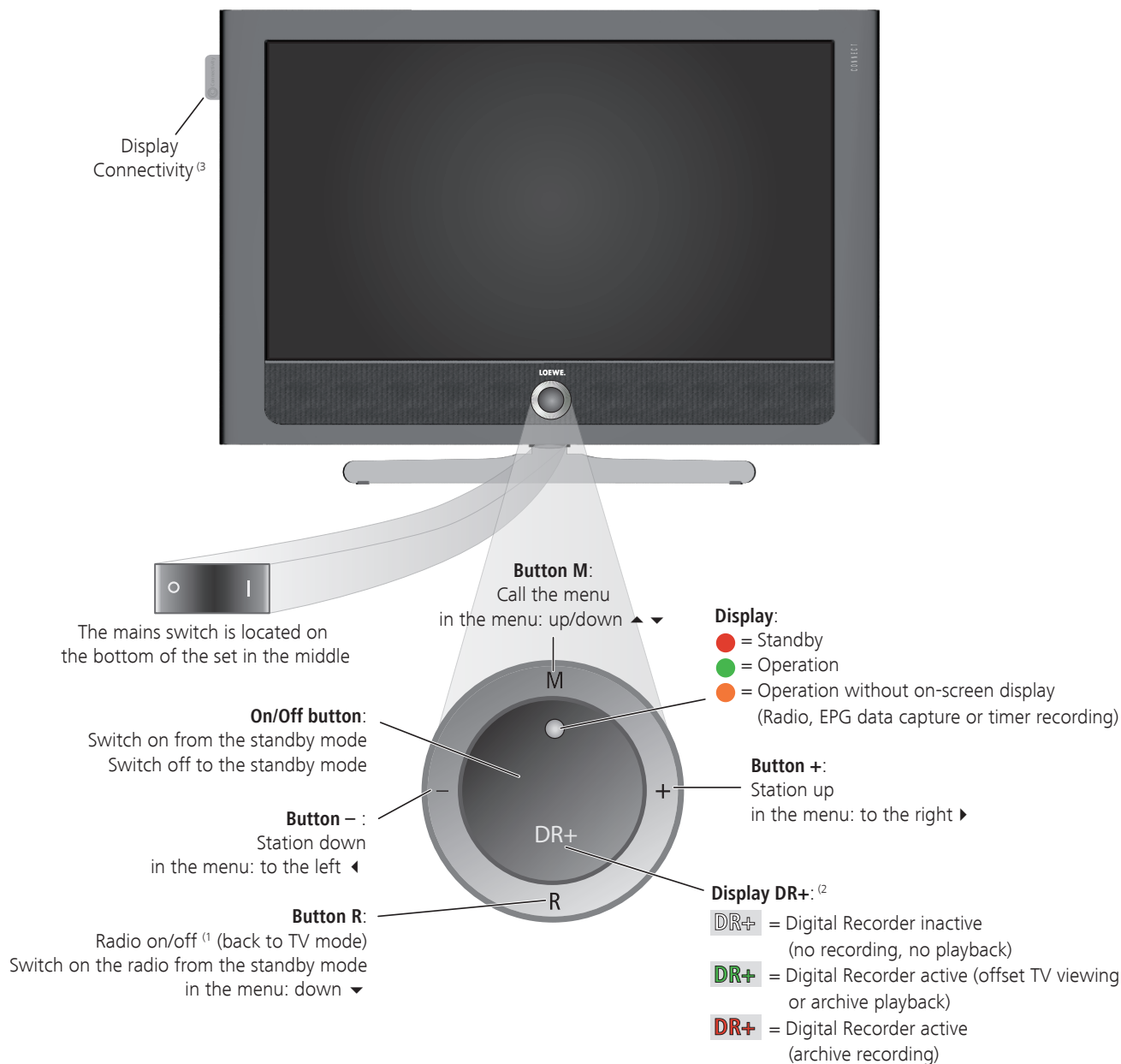
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Remote control – TV functions



Control unit front side of the device

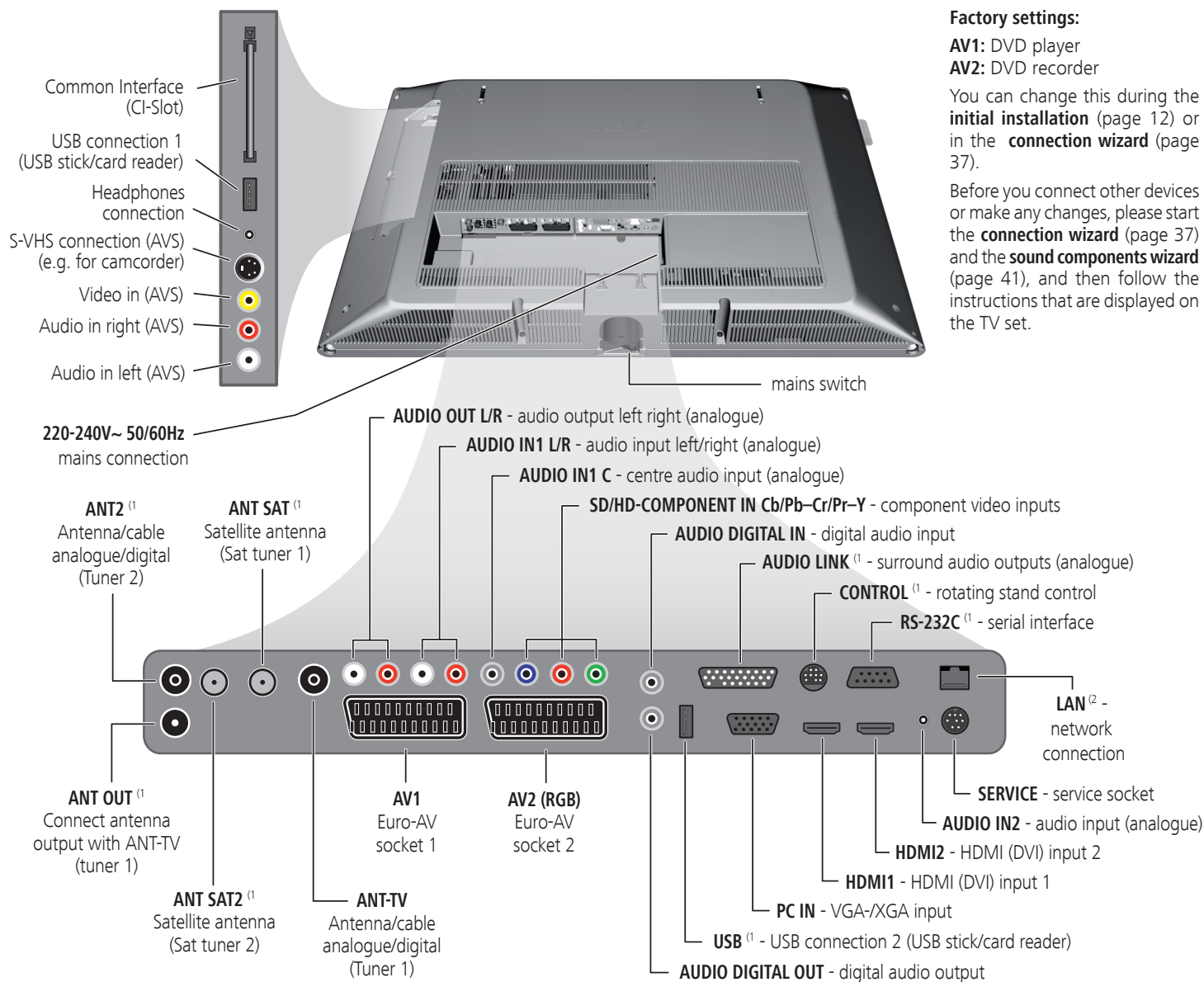


¹ Radio only for DVB reception, provided the station broadcasts this.
Otherwise switch over to an audio input.

² Only in sets with integrated Digital Recorder.

³ Only in sets with Network Mediaplayer (see operating manual Network Mediaplayer).

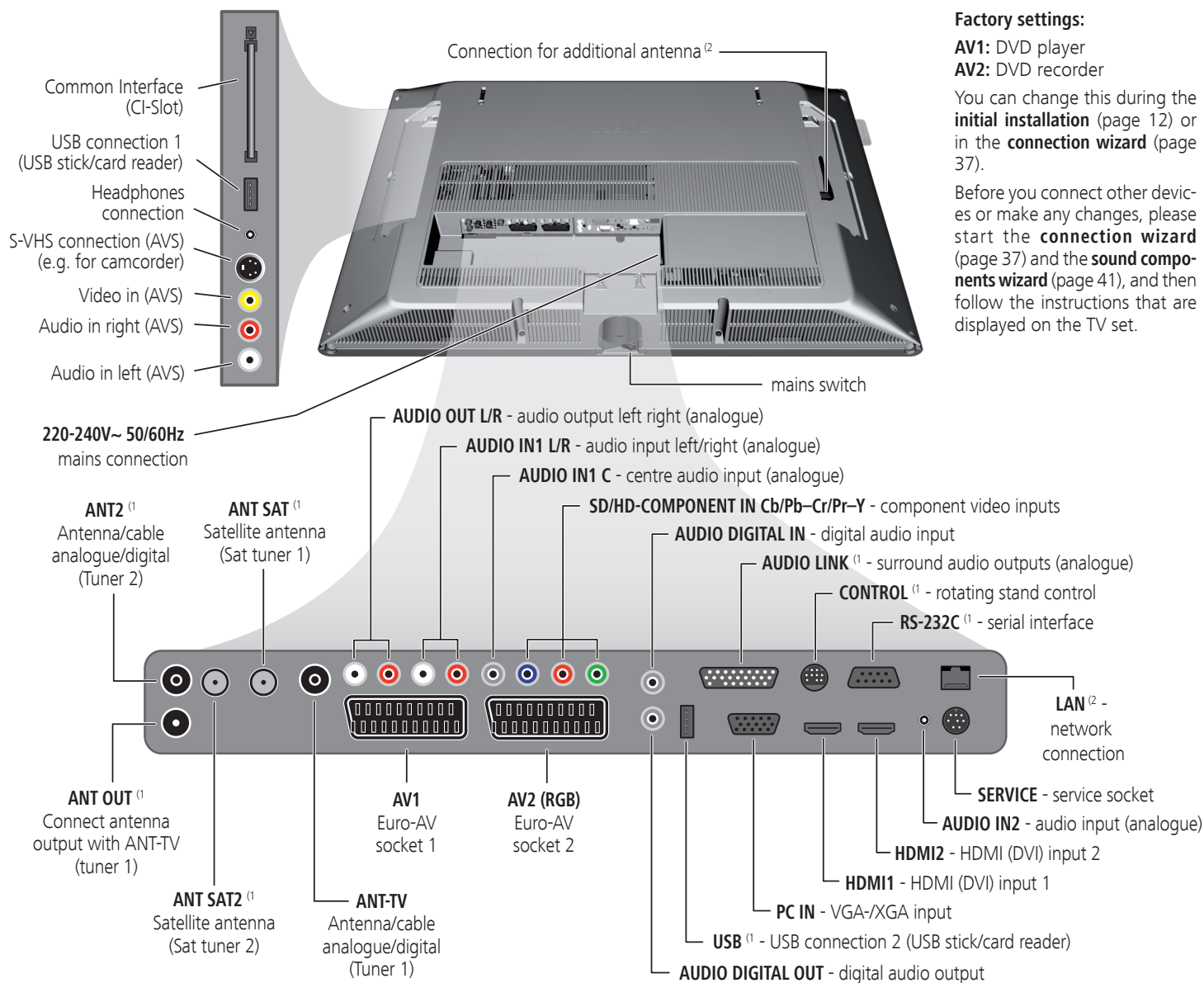
Connections rear side of the device – Connect 32



⁽¹⁾ See pages 58 and 59 for equipment and upgrade possibilities.

⁽²⁾ Only in sets with Network Mediaplayer (see operating manual Network Mediaplayer).

Connections rear side of the device – Connect 37 / Connect 42



Factory settings:

AV1: DVD player

AV2: DVD recorder

You can change this during the **initial installation** (page 12) or in the **connection wizard** (page 37).

Before you connect other devices or make any changes, please start the **connection wizard** (page 37) and the **sound components wizard** (page 41), and then follow the instructions that are displayed on the TV set.

⁽¹⁾ See pages 58 and 59 for equipment and upgrade possibilities.

⁽²⁾ Only in sets with Network Mediaplayer (see operating manual Network Mediaplayer).

Welcome

Thank you!

Loewe sets high standards in technology, design and user friendliness. This applies equally for TV, video and accessories.



Your new TV set is equipped for the TV standard "HDTV" (High Definition Television). With its high definition screen and the future-oriented digital interfaces HDMI (High Definition Multimedia Interface) it offers possibilities for watching HDTV broadcasts in an excellent picture quality.



HDTV is a worldwide, digital standard in the 16:9 format which revolutionises normal TV viewing. It is broadcast with an up to five times greater resolution than conventional signals and therefore creates an unexpectedly 3D image.

The TV set is equipped for digital reception. You can use the everywhere TV (DVB-T) already broadcast many times as well as digital cable (DVB-C) and also digital satellite reception (DVB-S) with a upgrade.

The Loewe Digital+ HD platform in sets with Digital Recorder even enables dual reception of uncoded stations of DVB-T, DVB-C and DVB-S.

If MHEG-5 is selected for location of TV set UK or IRL, DVB-C und DVB-S reception is not possible, see also on page 13.

The TV set can be upgraded with an AC3 module. You can then connect a speaker system (e.g. Loewe Individual Sound) and enjoy the movie sound. Dolby Digital, dts and MPEG are decoded.

You can connect a card reader or a USB stick with digital photos and/or MP3 music files to the USB connection of your TV set and view your photos or play music via the integrated PhotoViewer/MusicBox software.

All functions can be controlled with the Loewe remote control.

We have designed the TV set in such a manner that you can easily operate it with the help of wizards and menus. Information about the menu settings is displayed automatically. You will quickly comprehend the context.


Scope of delivery

- LCD TV set
- Power cable
- Antenna cable
- Table mount (assembled)
- Remote control Assist with two batteries
- Marketing and service card
- Additional antenna WLAN if the TV set is equipped with Network MediaPlayer (not in Connect 32 Media)
- Network MediaPlayer operating manual if the TV set is equipped with Network MediaPlayer.
- Digital Recorder operating manual if the TV set is equipped with Digital Recorder.
- This operating manual

About this operating manual

For many questions concerning the technology you will find an answer in the index of your TV set. If your question concerns TV set operation, you can access a function directly from the index of the TV set. Owing to this possibility, this operating manual only explains the most important operating steps.

The index/glossary from page 60 onwards gives explanations of certain terms used in the TV set and the operating manual.

Sections beginning with the symbol  indicate important instructions, hints or conditions for the following settings.

Terms which you will find in the menu or printed on the remote control or the TV set are printed in **bold** letters.

In the description, the necessary operating elements are located to the left of the text with the handling instructions.

Depending on the connected accessory equipment the menus in the TV set can differ from those described here.

All the station names, programme contents, the illustrated photos, titles, albums and album covers in this operating manual are examples.

TV set equipment

See the rating plate on the rear of the set for the precise product designation. The precise features are listed in the **Integrated features** item in the index of the TV set (see page 16).

Trademarks

Made under licence by Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



The screen font "Loewel2700" is based on the "Tavmjong Bah Arev (tavmjong.free.fr)" font, which in turn is based on "Bitstream Vera". Bitstream Vera is a trademark of Bitstream Inc.

This set contains software based partly on the work of the Independent JPEG Group.

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Welcome

Operating convenience with wizards

This TV set offers user prompting with wizards that take you through the settings step-by-step.

You can return to the previous step or exit the wizard at any time.

The wizards in overview

Initial installation

The initial installation wizard helps you with the initial installation and connection of any existing equipment (see page 12).

Setting up the antenna

You enter in the antenna wizard which antenna signals are available to you. The antenna wizard is called in initial installation (see page 12). You can also open the antenna wizard in the **TV menu** under **Connections** → **Antenna DVB** → **Antenna DVB-S**⁽¹⁾ or **Antenna DVB-T**.

Search wizard

If, after the initial installation, you want to search for new stations, or if you have set up your antenna for the first time, then you can handle this task with the help of the search wizard (see page 24). You will find the search wizard in the **TV menu** under **Settings** → **Stations** → **Search wizard**.

Connecting external devices

The connection wizard ensures that all devices are correctly registered and connected. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 37). You will find the connection wizard in the **TV menu** under **Connections** → **New devices/modifications**.

Connecting sound components

The sound component wizard ensures that the components which reproduce the TV sound are correctly registered, connected and set. It is started automatically at the end of the initial installation wizard but can also be called separately (see page 41). You will find the sound components wizard in the **TV menu** under **Connections** → **Sound components**.

Assist+

You can select the most important operating modes directly with the Assist+ menu (**ASSIST** button). Selectable modes are: TV, Radio digital, Teletext, PhotoViewer, Index and when equipped with Digital Recorder or Network Mediaplayer also Digital Recorder archive or MediaNetwork (see page 16).

Programming and managing recordings

The recording wizard helps you to programme a video recording with a VCR, DVD or Digital Recorder, if installed (see page 44).

Station list

The station list is a list of all the stored stations. You can also use the station list for switching stations conveniently (see page 18).

Software update wizard

You can load the latest software for your TV set via satellite⁽¹⁾ or with the aid of a USB stick (see page 35).

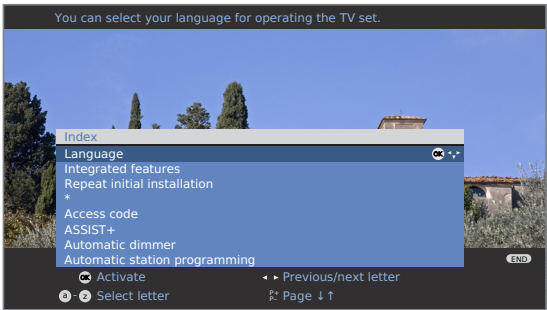
Info display and TV index

An information display for each menu item

The info display automatically shows content-based info texts in the upper part of the screen for each menu item. It forms a convenient operating system with the index (see page 15).

An index in the TV set

The index gives you an overview of the functional scope of your TV set. You can also start wizards and menu settings directly from here (see page 16).



⁽¹⁾ if upgraded

For your safety

For your own safety and to prevent unnecessary damage to your device, read and comply with the following safety instructions:

Proper use and environmental conditions

This TV set is intended exclusively for the reception and reproduction of video and audio signals and designed for the home and office. It may not be used in rooms with high **humidity** (e.g. bathrooms, saunas) or high **dust concentration** (e.g. workshops). The manufacturer's warranty is only valid for use in the specified permissible environment.

If the set is used outdoors then ensure that it is protected against **moisture** (rain, splashing water, or dew). High humidity and dust concentration cause creep currents in the set. This can cause electric shocks or fires.

If you have brought the set into a warm environment from the **cold**, then wait for about 1 hour before switching it on to avoid formation of **condensation**.

Do not place any **objects** filled with **liquid** or burning candles on the device. Protect the set against dripping and splashing water.

Never place the TV set in a position where it is exposed to **vibrations**. This can lead to material overload.

When rotating the TV set there is a **danger of crushing** between the TV housing and the table stand. Makes sure that your fingers or other objects are not in this area when rotating the TV set.



Transporting

Only transport the device in **vertical position**. Grasp the device on the upper and lower edges of the housing.

The LCD screen is made of glass or plastic and can break if not handled properly.

If the LCD screen is damaged and **liquid crystal** is leaking, wear rubber gloves for handling the TV set. If there is **skin contact** immediately wash thoroughly with water.

Power supply

The **wrong voltage** can damage the set. This equipment must only be connected to a mains power supply which has the same voltage and frequency as that specified on the rating plate; use the power cable provided. The **mains plug** of the TV set must be easily accessible so that the device can be disconnected from the mains at any time. When you unplug the mains plug, do not pull on the **cable** rather pull on the plug housing. The cable in the mains plug could be damaged and cause a **short circuit** the next time it is plugged in.

Lay out the **power cable** in such a manner that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, stepped on or exposed to **chemicals**; The latter also applies for the entire equipment. A power cable with damaged insulation can cause **electrical shock** and is a **fire hazard**.

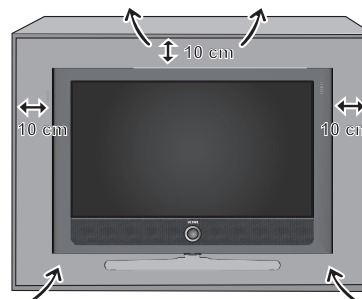
Air circulation and high temperatures

The **vent slots** on the **rear panel** of the set must always be kept free. Please do not place newspapers or cloths on/over the TV.

At least 10 cm clearance must be left at the sides and top for air circulation if the TV set is placed or hung in a **cabinet** or a **shelf**.

Like any electronic device, your TV set requires air for cooling. Obstruction of the air circulation can cause fires.

The set is suitable for different installation solutions. See the instructions for assembly for the different installation solutions.



Stand the TV set with the table or floor stand only on a level, **sturdy, horizontal base**. Particularly ensure that the set does not protrude to the front when placed in or on pieces of furniture.

Set up the device where it is not exposed to direct **sunlight** and where it is not exposed to additional warming through **heating elements**.

Prevent **metal items**, needles, paper clips, liquids, wax, or similar items, from getting into the interior of the device through the **vent slots** in the rear panel. Such objects can cause **short circuits** in the set, which could possibly cause a fire.

If something should get into the **interior of the set** then immediately unplug the mains plug of the device and contact **customer service** for more information.

For your safety

Repairs and accessories

Never remove the back of the TV set yourself. Only have your TV device repaired or serviced by authorized television technicians.

Only use **original accessories** such as Loewe stands if possible (see Accessories on page 58).

Supervision

Do not allow **children** to use the TV set without supervision or to play in the immediate vicinity of the TV set. The set could tip over, be pushed off or pulled down from the stand surface and injure someone.

Do **not** allow the switched-on TV set to run **unattended**.

Volume

Loud music can lead to ear damage. Avoid extreme volume especially over long periods and when using headphones.

Cleaning

Use only a soft, clean, damp cloth to clean the TV, screen and remote control, do **not use** any **caustic** or **abrasive cleaning agents**.

Connect TV sets with a high gloss surface may only be cleaned with a soft, clean antistatic cloth.

Thunder storms

Pull out the **mains plug** and all connected **antenna cables** from the TV set in a thunderstorm. Overvoltage caused by **lightning** can damage the set via the antenna system, as well as via the mains power. The mains plug and all connected antenna cables should also be pulled out during long periods of **absence**.

Note on the LCD screen

The TV set you have purchased with LCD screen satisfies the most rigorous quality requirements and has been inspected relative to **pixel errors**. In spite of the utmost care in manufacturing the display, for technical reasons the possibility that some **pixels** will have defects cannot be 100% excluded. Please understand that these types of effects, as long as they are within the standard of specified limits, cannot be considered as a device defect in terms of the guarantee.

Environmental protection

Energy consumption

Your TV set is equipped with an eco-standby power supply. In the standby mode, the power consumption drops to low power (see technical data on page 57). If you want to save even more energy then switch the device off with the mains switch. However note that in this case, EPG (Electronic Programme Guide) data will be lost, and it may be that programmed timer recordings **cannot** be executed via the TV device.

If you activate the automatic dimming (see page 21) your TV picture adapts to the ambient brightness. This reduces the power consumption of the TV set.

Packaging and box

You have made a decision to purchase a high-quality technical product with a long service life. For disposal of the packaging, in accordance with national legislation we have paid a fee to a commissioned recycler to pick up the packaging from the dealer. Nevertheless we recommend keeping the original box and **packaging material** on hand so that the device can be transported with optimal protection if necessary.

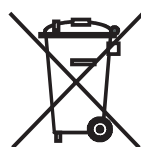
The set



The EU directive 2002/96/EC regulates the proper way to recycle, handle and utilise used electronic devices. **Old electronic devices** consequently must be disposed of separately. Please do **not** dispose of this device in normal **household trash**!

You may return your used set free of charge at designated recycling centres or at your specialist dealer whenever you purchase a new, comparable set. Further details about returning (also for non-EU countries) are available from your local authorities.

Batteries



The batteries supplied as initial equipment do not contain any pollutants such as cadmium, lead, or mercury. Used batteries should **no longer** be disposed of in the **domestic waste** according to the Battery Ordinance. Dispose of your batteries at no charge in the **collection containers** that are set up for this purpose in retail stores.

Initial installation

Installing the TV set

Install as manually rotatable table unit with the Table Stand included.
See accessories (page 58) for other installation options.

Preparing the remote control unit

Inserting or replacing batteries

Press the embossed arrow and push down the battery compartment cover.

Insert two alkaline manganese LR 03 (AAA) batteries;
ensure that the + and – poles are correctly positioned!

Slide the cover up from below.



Adjusting the remote control for operating the TV set

TV

Press the **TV button**.

See page 52 to find out how to operate other Loewe equipment.

Connecting the TV set

Connecting to the mains

Connect the TV set to a 220-240V power outlet:

First plug the small plug of the power cable into the power connection on the rear of the TV, then plug the large power plug into a mains power outlet.

Connecting the antenna

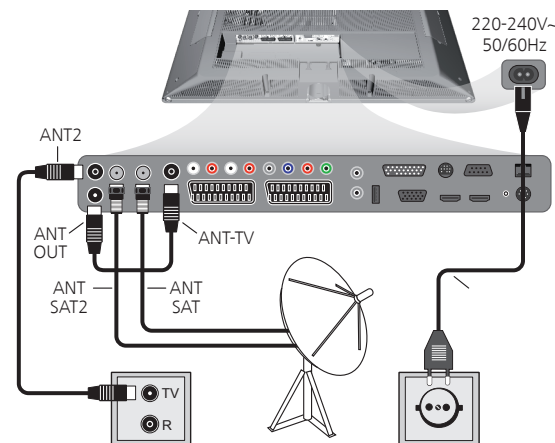
Analogue / DVB-C- / DVB-T antenna:

In sets with DR+: Plug the antenna plug of the antenna or cable system or the room antenna into the **ANT2** socket. The connecting cable between **ANT-TV** and **ANT OUT** has already been plugged in at the factory.

In sets without DR+: Plug the antenna plug of the antenna or cable system or the room antenna into the **ANT-TV** socket.

Satellite antenna, if upgraded:

Connect one antenna plug each, for example, from the antenna switch or the Twin-LNC of the satellite system to the **ANT-SAT** and **ANT-SAT2** sockets (only for sets with DR+). If you only connect one SAT antenna cable, connect it to **ANT-SAT**.



Connections on the back of the set (see also page 5 and 6).

Connect network (only for sets with Network Mediaplayer)

Connection and configuration of the network connection is described in the Network Mediaplayer operating manual.

Receiving coded stations

When using a CA module and a Smart-Card to receive coded stations, please observe the handling of the CA module (see page 34).

Initial installation

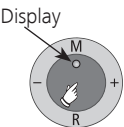
Turning the set on/off

Switching the TV set to standby mode



Actuate the mains switch on the bottom of the set.
The display in the control panel on the front of the set will be illuminated red, the set is now in standby mode.

Switching the TV on/off on the control unit



Press the centre of the on/off button to switch the TV set on/off.
Meaning of the display color:
Red: Standby mode
Green: TV set is switched on
Orange: Radio mode, set receives EPG data or timer recording active

Switching the set on with the remote control



Press the **on/off** button.



or:
numeric buttons (0–99).



or:
TV button.



or:
OK button – station list is called.



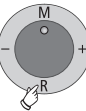
or:
Assist button – Assist+ menu is called.

Switching the set off with the remote control



Press the **on/off** button.
Before switching off the set with the mains switch, we recommend you to switch it to standby mode.

Switch on in Radio mode

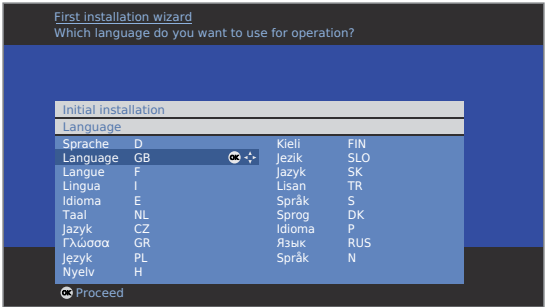


Press **R** on the TV control unit.
or:
Press the **RADIO** button on the remote control (radio mode, see page 36).

First installation wizard

Initial installation after switching on for the first time

This wizard starts automatically after the set is switched on for the first time, however it can also be called later manually in the TV index, see **Repeat initial installation** on page 16.



The first step with the wizard starts when selecting the language for the user prompts. From this point on follow the instructions on your TV set.

Brief explanation of button functions:



Press the ring (up, down, left, right) to move the cursor and to select settings.



By pressing the **OK button** a setting is confirmed and you will go to the next step.



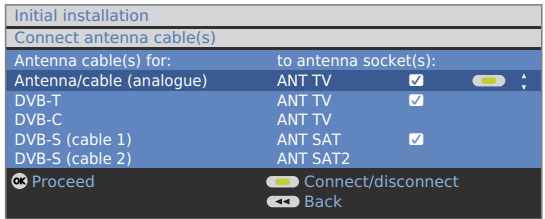
With the **yellow button** you can select or remove the individual items (see the example below).
When an element is selected, it is marked by a checkmark ✓.



Use this button to go back one step.



Exit the wizard with the **END button** (if available).



An example of multiple selection using the **yellow button**.

continued on next page →

Initial installation

Explanations of the setting possibilities, including the upgradeable satellite reception:

Location of TV set	<p>Select the country for country-specific pre-settings.</p> <p>If UK or IRL is selected for the location of TV set, it is possible to activate MHEG-5 (UK Freeview) for the TV set.</p> <p>A dialogue appears, where you can confirm to set the operating software to the selected location.</p> <p>If Yes is selected and confirmed with OK, the TV set turns off and on again automatically. First installation starts again after activating the operation software.</p> <p>If MHEG-5 was activated, DVB-C and DVB-S can not be used anymore. Only terrestrial/cable and DVB-T stations are available.</p>	LNC frequencies Low Band / High Band	<p>Normally, you do not need to change the values for high and low band, unless the LNC (LNB) of your satellite system uses a different oscillator frequency (important for the frequency display).</p> <p>After you have made these settings, you should receive the picture and sound of the selected satellites (only with Astra1 and HOTBIRD).</p>
Antenna selection	<p>Antenna/cable (analogue): analogue stations via cable/antenna</p> <p>DVB-T: digital, terrestrial stations</p> <p>DVB-C: digital stations via cable</p> <p>DVB-S (line 1): digital stations via satellite</p> <p>DVB-S (line 2): digital stations via satellite</p>	Search method	<p>If you want to run the station search independently of the channel grid, select frequency search for the search method.</p>
Encrypted stations	<p>You can state whether coded stations are to be searched for in the search/update. Select yes then coded stations are also searched for. However, these stations can only be received in connection with a CA module and the appropriate Smart Card. Handling of the CA module is described on page 34.</p>	Symbol rates	<p>The symbol rates are specified by the satellite provider and do not normally need to be changed.</p>
DVB-T: Antenna	<p>If you are using an active antenna, then select yes (5V) for the antenna power supply.</p>	Favoured signal source	<p>Select the signal source from a list, the station of which is to be at the top of your station list (starting with station slot 1).</p>
DVB-C: Settings	<p>The conventional settings will be derived from the selection of set location. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network (information available from your cable network provider). If you want to run the station search independently of the channel grid, select frequency search for the search method.</p>	Start search	<p>Start the automatic station search with OK.</p> <p>First Tv stations, then radio stations are searched for.</p> <p>The stations found in the automatic search are divided into the appropriate station blocks depending on the previously selected antenna cables (signal sources). Subsequently the stations can only be re-sorted within these blocks. At the beginning of the station list you will find the block with the stations of the preferred signal source.</p> <p>Any mixed sorting of stations from different signal sources is only possible with the favourites list.</p> <p>► For TV sets with MHEG-5 software the stations are tied to "Logical Channel Numbers" – "LCN" and sorted from 1-799. Digital stations without "LCN" are stored from 800 onwards. Analogue stations are stored from 1001.</p>
DVB-S: Satellite system	<p>Select which satellite(s) you receive from a list. For more than one satellite, select the type of your changeover switch or communal satellite system additionally. Ask your dealer in this regard.</p>	Connecting additional devices	<p>Then the connection and sound component wizard starts which helps you to log in, set and connect video recorders, decoders, a loudspeaker system or a HiFi/AV amplifier to your TV set. DVD players and DVD recorders are already registered at the factory.</p> <p>You can start the connection wizard and the sound components wizard manually later and add new devices. Further information is available from page 37 (Connection wizard) and page 41 (Sound components wizard).</p>
High band	<p>Specify here whether the high band of the selected satellite is to be searched in addition to the low band.</p>		

continued on next page →

Initial installation

Digital Link Plus If you have logged in and connected a recorder in the connection wizard, the Digital Link Plus transmission starts when the sound component wizard closes. If a Digital Link Plus compatible recorder is connected, the station list of the analogue stations is transmitted to the external recorder.
You can also call Digital Link Plus manually under **TV menu** → **Connections** → **Digital Link Plus**.

Explanations of the DVB-T antenna:

- Room antenna** With good reception conditions a room antenna can be used for DVB-T (socket **ANT2**).
- Active antenna** Under less favourable reception conditions, an active antenna is recommended which must be set accordingly in the first time commissioning or in the **TV menu** → **Connections** → **Antenna DVB** → **Antenna DVB-T** (see DVB-T Antenna on page 13).
- Unidirectional antenna** If the location is outside of the normal transmission range then a unidirectional antenna can be used to improve reception quality.

Positioning/aligning the DVB-T antenna

If you receive one or more DVB-T stations with picture or sound interference, you should change the position and alignment of the antenna. Ask your dealer to tell you which channels are used to broadcast the DVB-T stations in your region.

- ➡ In normal TV mode, without other displays.
A DVB-T station is received and selected.



Call **TV menu**.

- ▶ Select **Settings**,
▼ go to the menu line below.
- ▶ Select **Stations**,
▼ go to the menu line below.
- ▶ Select **Manual adjustment**,
OK call manual adjustment.



The signal source is already on DVB-T due to the station preselection.

Position and align the antenna in such a manner that maximum values for **C/N** and **Level** are obtained.



Blue button: Start search.

Search for DVB-T stations one after another and compare values for **C/N** and **Level**.
Then position/align the antenna to the weakest station so that maximum values for **C/N** and **Level** are obtained.

Thereafter perform an automatic search for all DVB-T stations, see page 24.

Explanation of the setting possibilities:

- Bandwidth** Depending on the selected channel and country the associated bandwidth of 7 or 8 MHz will be set automatically.

Operating convenience

General information on menu operation

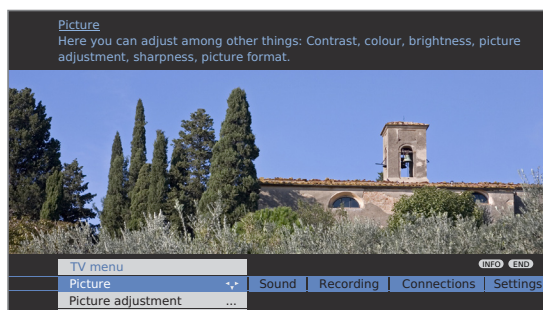
Menus for the individual operating modes (TV, Radio, PIP, EPG, Teletext, PhotoViewer, MusicBox and Digital Recorder, if installed) are called with the **MENU button**. Other menus can be opened with other buttons on the remote control.

The menus are displayed at the bottom of the screen. At the top you get additional information about the selected menu item (see info display on the right).

► In normal TV mode, without other displays.

MENU

Call **TV menu**.



Example: Selecting and executing functions



- ◀ ▶ Select **Picture**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **Brightness**,
 - ▼ go to the menu line below.
- ◀ ▶ Set **Brightness**.
 - ▲ Return to the **Brightness** menu line to make other picture settings.
- ◀ ▶ Select **more ...**,
OK call **more ...** functions.
- ◀ ▶ Select **Auto format**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **on / off**.

END

Conclude the settings.

Inputs with the numeric buttons



Letters have to be entered for specific functions. Like using a mobile phone keypad (1 to 9), press a numeric button until the desired character appears.

The available letters are printed on the individual numeric buttons.

The info display

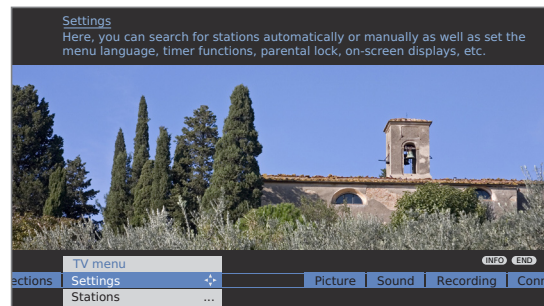
The info display shows a content-based info text for each menu item at the top edge of the screen to aid you in making the settings. In conjunction with the index it makes a convenient control system.

► A menu is displayed.

INFO

The factory setting is that the info display is shown automatically for each menu item. In this case you can temporarily hide the info texts with the **INFO button**.

The automatic info display can be hidden via a menu setting. Then it can be displayed temporarily by pressing the **INFO button**.



An **INFO** icon at the bottom right above the menu bar also tells you that an info text is available.



If a several page info text is available, **Page ↓ ↑** is displayed in the info window and you can scroll through the individual info pages with ◀ and ▶.

Permanently display or hide the automatic info display

Once you have become familiar with how to operate the TV set, you can switch off the automatic info display.

► In normal TV mode, without other displays.

MENU



Call **TV menu**.

- ◀ ▶ Select **Settings**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **On-screen displays**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **Automatic info**,
 - ▼ go to the menu line below: **yes / no**.

Operating convenience

The index in the TV set

You can start all wizards and many operating functions directly from this point. The complete function scope of the TV set can thus be easily understood.

Alphabetic sorting is preceded by the items **Language**, **Integrated features** and **Repeat initial installation**.

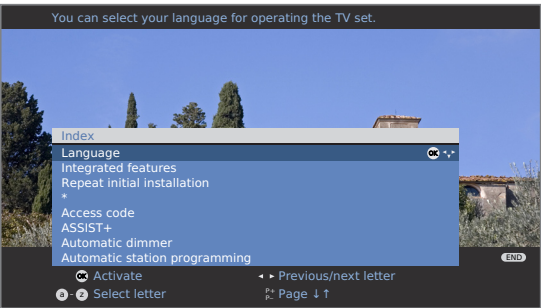
Call index

➡ In normal TV mode, without other displays.

INFO

Call **Index**.

You will see an info text for the highlighted keyword in the info display. If MHEG-5 is active, call the status-display with **INFO** and press **INFO** again for index.



If an OK symbol appears in the marked line, this function can be called directly with **OK**.

Selecting a keyword



Enter initial letters with the **numeric buttons** like with a mobile phone keypad (see page 15).

or go with:



◀ ▶ to the preceding / next letters,
▼ ▲ from line to line,



P+/P- scroll backwards or forwards in whole pages.

Example: You want to have the TV set switch off automatically at a specific time:
Select the item **Switch off → Automatic**, you go to the setting with **OK**.

The Assist+ menu

The most important additional functions of the TV set can be called directly by the Assist+ menu.

Call Assist+

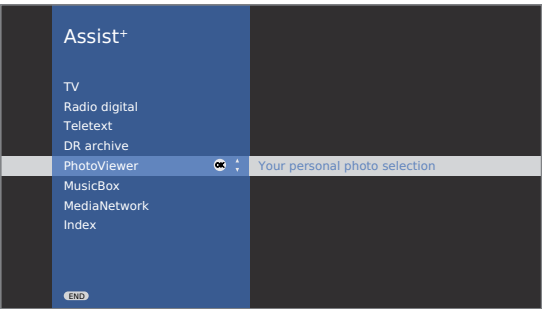
ASSIST



Call **Assist+** menu.

▲ ▼ Select additional functions.

OK calls the function.



Description of the individual functions:

TV mode see page 18 onwards.

Radio digital mode see page 36.

Teletext mode see page 32 onwards.

DR archive, if TV set is equipped with Digital Recorder, see Digital-Recorder operating manual.

PhotoViewer see page 46 onwards.

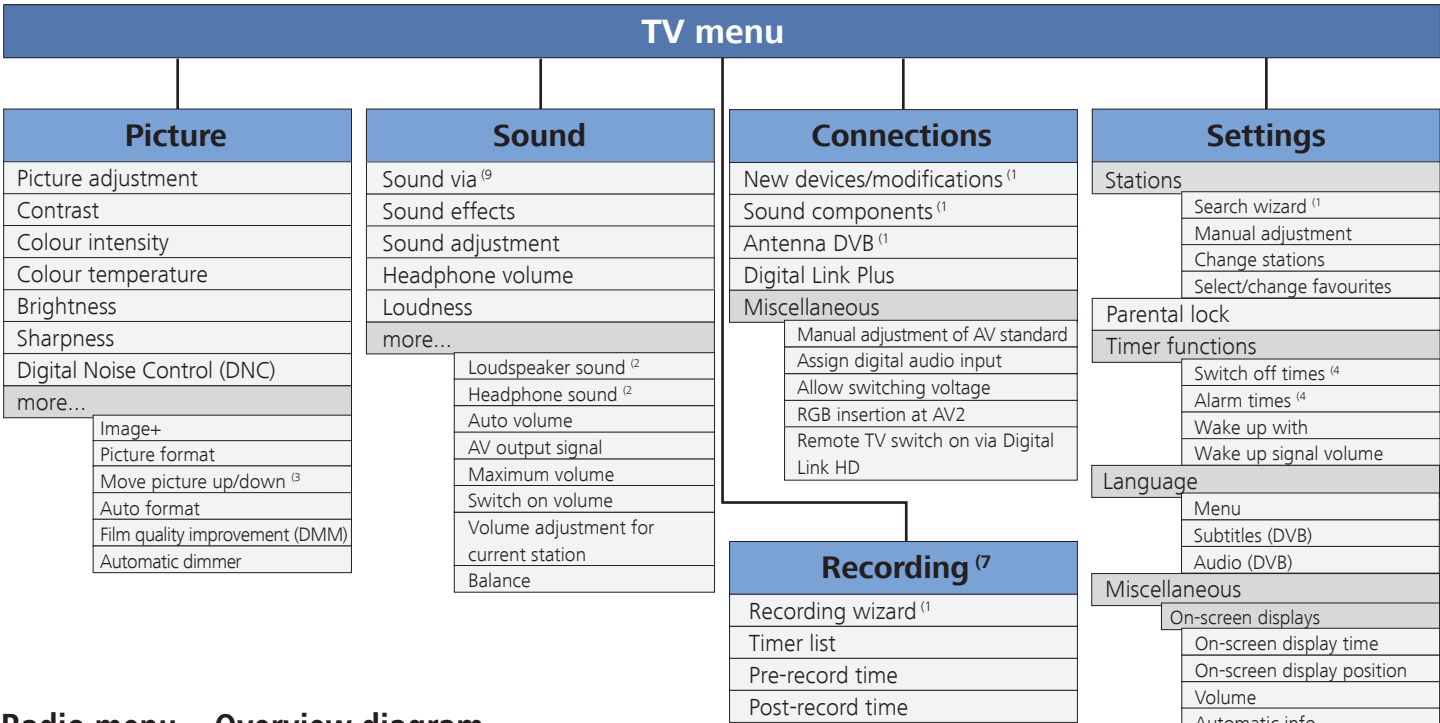
MusicBox see page 48 onwards.

MediaNetwork, if TV set is equipped with Network Mediaplayer, see Network Mediaplayer operating manual.

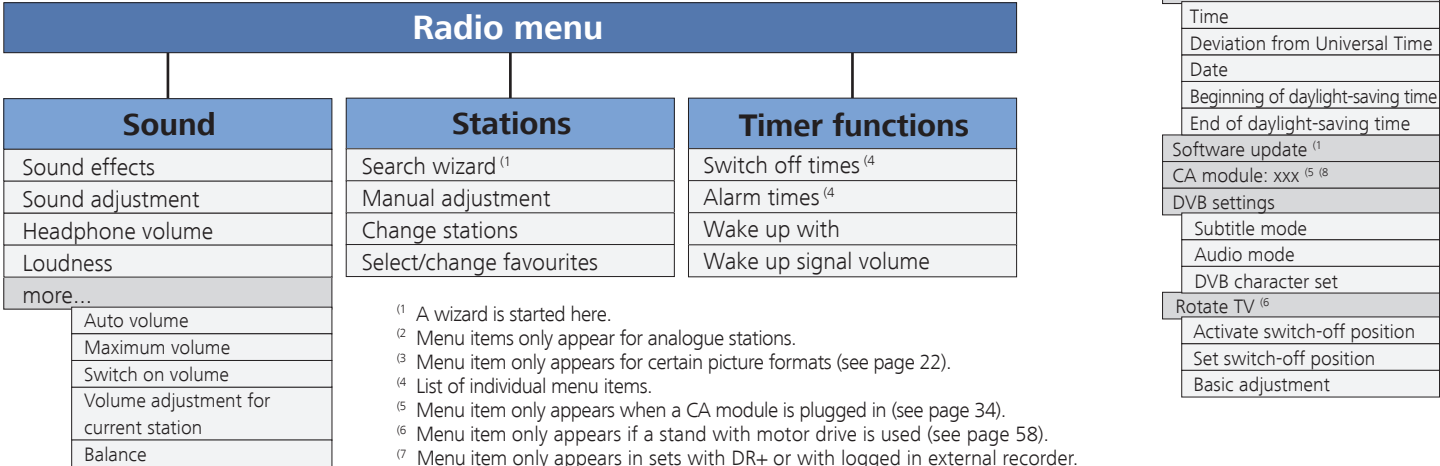
Index see left column.

Operating convenience

TV menu – Overview diagram



Radio menu – Overview diagram



⁽¹⁾ A wizard is started here.
⁽²⁾ Menu items only appear for analogue stations.
⁽³⁾ Menu item only appears for certain picture formats (see page 22).
⁽⁴⁾ List of individual menu items.
⁽⁵⁾ Menu item only appears when a CA module is plugged in (see page 34).
⁽⁶⁾ Menu item only appears if a stand with motor drive is used (see page 58).
⁽⁷⁾ Menu item only appears in sets with DR+ or with logged in external recorder.
⁽⁸⁾ Menu item doesn't appears for analogue stations.
⁽⁹⁾ Menu item only appears with certain settings in the audio component wizard (see page 20).

Daily operation

Select station

With the keys P+ and P- on the remote control



P+/P- station up/down.

The station display with sound identification is displayed briefly.

- ➡ If favourites are selected, the station in the favourites list is switched over with **P+/P-** (see page 19).
- ➡ If other languages or DVB subtitles are available on DVB stations, the language and subtitle selection is displayed under the station display.
See also page 23: Additional selection possibilities for DVB stations.

With the numeric keys of the remote control

1-digit stations

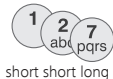


Keep the **numeric button** pressed for one second, the station changes immediately.

or:

Press **numeric button** briefly, the station changes after 2 seconds (immediate change for up to 9 stored stations).

2-digit and 3-digit stations



Press first (and second) **numeric button** briefly.

Keep the last **numeric button** pressed for one second, the station changes immediately.

or:

Press all the **numeric buttons** briefly, the station changes after 2 seconds (changes immediately if up to 99 or 999 stations are stored).

4-digit stations



Press all four **numeric buttons**, the station changes immediately.

- ➡ If favourites are selected, you can switch to the station in the favourites list with the numeric buttons (see page 19). Maximum two-digit station numbers are possible.
- ➡ When you select an empty memory location, the TV switches to the next available station.

Call last viewed station (for TV sets with MHEG-5 software)



- ▲ ▼ You can switch back and forth quickly between two stations using this buttons.

With the station list



Sorting numerically

- ➡ In normal TV mode, without other displays, no favourites selected:

OK call **Station list**.



P+/P- scroll in the pages of the station list.



▶▶ Jump to the next station block.



▲ ▼ ◀ ▶ Mark stations.

or:

Enter the number of the station with the **numeric buttons**. The marked station is shown as a small picture.

OK the marked station is called.



Blue button: Changes the sorting between **numerical** and **alphabetical**.

Sorting alphabetically



Enter initial letters with the **numeric buttons** like with a mobile phone keypad (see page 15).

The first station for the specified letters is marked.


▲ ▼ ◀ ▶ Mark stations.

OK the marked station is called.





Daily operation

With the favourites lists

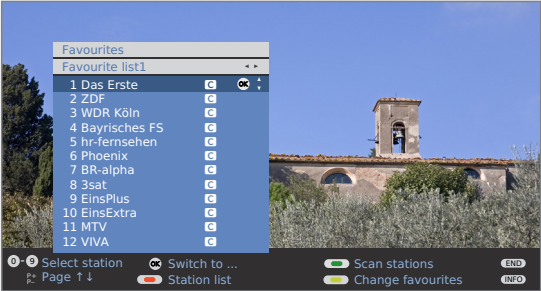
You can save and call your favorite stations in 6 favourites lists (e.g. for multiple users). Each favourites list can contain up to 99 stations. After initial installation, 10 stations from the station list are already stored in the first list. Change the favourites list to suit your requirements (see **Put together / change favourites lists** on page 27).




OK calls the station list.




Red button: calls the favourites list.



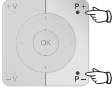
Favourites
Favourite list1
1 Das Erste
2 ZDF
3 WDR Köln
4 Bayrisches FS
5 hr-fernsehen
6 Phoenix
7 BR-alpha
8 3sat
9 EinsPlus
10 EinsExtra
11 MTV
12 VIVA




Select station directly with **numeric buttons**.



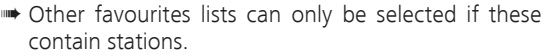
OK Mark stations.




P+/P- scroll in the pages of the favourites list.







◀ ▶ Select other favourites list.



► ◄ Other favourites lists can only be selected if these contain stations.



OK the marked station is called.



Red button: Back to the station list.

Green button: Scan all stations of the currently selected favourites list.


Yellow button: Change the Favourites lists, see page 27.

Explanation of the favourites lists:

The selection made with the red button (favourites list) is retained until you switch back to the station list with the red button.

If favourites are selected, the name of the favourites list appears in the status display after the station name after changing stations.


Explanation of the icons following station names:

- T** Digital DVB-T station (terrestrial via antenna)
- C** Digital DVB-C station (via cable)
- S** Digital DVB-S station (via satellite)
-  Coded station


Select video source

► Please make sure that the appropriate devices have been logged in with the device wizard (see page 37).


With the AV selection




Call **AV selection**.



AV selection
VIDEO | DVD | DVD-REC | AVS | PC IN | HDMI1/DVI | HDMI2/D




◀ ▶ Select desired device or connection,




OK to switch over.

A signal from the selected video source should now be visible.

With the station list



► ◄ In normal TV mode, without other displays.




OK call the station list.


If the favourites list is displayed, switch to the station list first.

The connections or devices are always at the top of the list in numerical sorting.


In alphabetic sorting, the connections or devices are sorted in alphabetically.



Station list
COMP. IN 5 hr-fernsehen
HDMI1/DVI 6 Phoenix
HDMI2/DVI 7 BR-alpha
VGA 8 3sat
AVS 9 EinsExtra
DVD 10 EinsFestival
VCR 11 EinsPlus
0 VIDEO 12 ZDFfokanal
1 Das Erste 13 ZDFdokukanal
2 ZDF 14 ZDFtheaterkan
3 WDR Köln 15 arte
4 Bayrisches FS 16 DAS VIESTE



◀ ▶ Select connection/device.



OK to switch over.

Daily operation

Adjusting the sound

Switching sound on/off



Sound off;
Sound on: Press button again or set volume **V+**.

Setting the volume



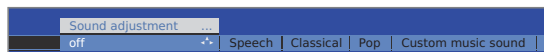
V+/V- volume louder / quieter.

The volume bar will be shown briefly if no other menu is displayed.

Call sound adjustment



Call **Sound adjustment**.



Select sound adjustment by pressing several times.

or:



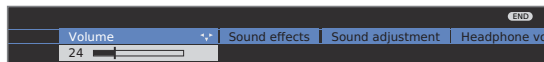
◀ ▶ Select sound adjustment.

Other sound settings in volume setting and sound adjustment

➡ As long as the volume bar or the selection of the sound adjustment is still visible:



▲ Call additional sound settings.



◀ ▶ Select sound setting,
▼ Go to the menu line below.
◀ ▶ Make changes.

Sound settings via the TV menu

➡ In normal TV mode, without other displays.



Call **TV menu**.



◀ ▶ Select **Sound**,
▼ go to the menu line below.
◀ ▶ Select desired sound setting,
▼ Go to the menu line below.
◀ ▶ Make changes.

Explanations of the sound settings:

Sound via Playback over the TV speakers, active speakers, Loewe Auro, Loewe Sound Projector or an external hi-fi amplifier.

The selection active speakers, hi-fi/AV amplifier or Sound Projector is only possible if these have been logged in in the audio component wizard. The Auro selection is only possible if a Loewe DVD Preceiver Auro is connected.

The menu item **Sound via** does not appear if **TV speakers** or **TV speakers + active subwoofer** is set in the audio components wizard.

Sound effects Set sound effects Stereo, Panorama, 3D Surround. **Panorama** gives the stereo sound a virtual base widening. **3D Surround** converts a stereo signal into a virtual surround signal.

Sound adjustment Speech, Classical, Pop, Custom music and film sound. You can set the treble and bass for music and movie sound.

Headphones vol. Adjust the headphones volume.

Loudness Proper boost of bass and treble tones at low volume.

more ... call with **OK**.

Loudspeaker/ Headphone sound Selection possibility Mono/Stereo or Sound 1 or Sound 2 for two-sound broadcasts separately for speakers and headphones. Only available with analogue stations.

Auto Volume Reduces volume differences, e.g. for advertisements that are too loud.

AV output signal Sound selection for two sound broadcasts.

Maximum volume Determining the maximum volume that can be set.

Switch on volume Specify the volume that is set when switching on the TV set with the power switch. This does not affect switching the set on from standby mode.

Volume adjustment for current station The volume can differ according to the individual stations. If the sound is too loud or too quiet in relation to other stations, adapt the volume. When the menu is open, you can select the stations one after another with **P+/P-** and adjust every single station conveniently.

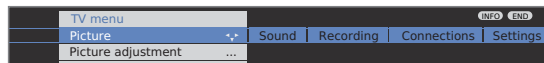
Balance Set Stereo balance so that the volume impression is identical on the left and right.

Daily operation

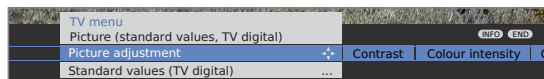
Adjusting the picture



Call **TV menu**.



- ◀ ▶ Select **Picture**,
- ▼ go to the menu line below.



- ◀ ▶ Select the desired picture function,
- ▼ go to the menu line below.
- ◀ ▶ Make changes.

Explanations of the picture settings:

- Picture adjustment Switches the picture parameters between standard and personal values.
- Contrast Adjust contrast.
- Colour intensity Adjust the colour.
- Colour temperature Set warmer or colder tone for picture.
- Brightness Adjust the brightness of the picture.
- Sharpness Adjust the contour sharpness of the picture.
- DNC Removes or reduces the signal noise in the picture.
- more ...** Call with **OK**.
- Image+ Picture improvement on/off and Demo mode for Image+.
- Picture format Set picture format (see page 22).
- Move picture up/down Move picture vertically (see page 22).
- Auto format Automatic detection and setting of the picture format for Cinemascope or widescreen movies.
- DMM Reduce jolting.
- Automatic dimmer The TV picture adapts to the ambient brightness. The power consumption of the TV set is also reduced.

Standard / personal values for picture adjustment

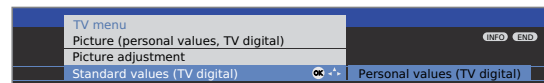


Call **TV menu**.



- ◀ ▶ Select **Picture**,
- ▼ go to the menu line below.

- ◀ ▶ Select **Picture adjustment**,
- ▼ go to the menu line below.



- ◀ ▶ Select desired values for picture,
- OK** call selected values for picture.

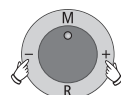
Explanations for Picture adjustment:

Custom adjustments of contrast, colour intensity, colour temperature, brightness, sharpness and digital noise suppression are saved in the custom values. Every signal source (TV analogue, TV digital, HD analogue, HD digital, PC, PhotoViewer) has its own personal values. By selecting **Standard values** the picture parameters are reset to factory values for the respective currently active signal source. See the glossary for an explanation of the signal sources: **Signal input groups**.

In the index of the TV set, all the picture and sound adjustments can be reset to the factory values for all signal sources in one step under **Reset picture/sound** or **Factory settings picture/sound**.

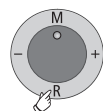
Operation without remote control

Changing the station on the TV set



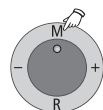
+ / - Station up/down.

Switching radio on or off or switching to radio

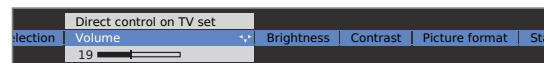


R Radio on, or switch between TV and Radio.

Calling the TV menu on the set



M call **Direct control on TV set** menu,



- / + Select function.

Service is intended for the customer service.

M or **R** Go to the menu line below,

- / + Make changes.

M go up one menu line,

- / + Select other function.

Daily operation

Button functions

Every operating mode of the TV set (TV, Radio, Teletext, EPG, PIP, PhotoViewer, MusicBox and DR archive, if equipped with Digital Recorder) has its own menu and own functions for the coloured buttons. The function of the coloured buttons is shown at the bottom of the menus and wizards. Below, some of the function are listed which you need in TV mode for the daily handling of your TV set.

Functions of the coloured buttons in TV mode

➡ The coloured buttons do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 33 (Digital Teletext).

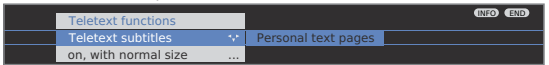


Red button: Freeze on/off

In sets with Digital Recorder: DR archive on/off.
For TV sets with MHEG-5 software you can open the DR archive via the menu Assist+ (see page 16).



Green button: Open the **Teletext functions** menu.



◀ ▶ Select **Teletext subtitles** or **Personal text pages**.
▼ Go to the menu line below in **Teletext subtitles**.
◀ ▶ Select the size of the Teletext subtitles,

OK show Teletext subtitles.
(display only if subtitles are available).



END: Teletext subtitles off or select **off** in menu.



OK in **Personal text pages** calls the teletext pages or the teletext page directly if only one page is noted (for defining pages, see page 33).



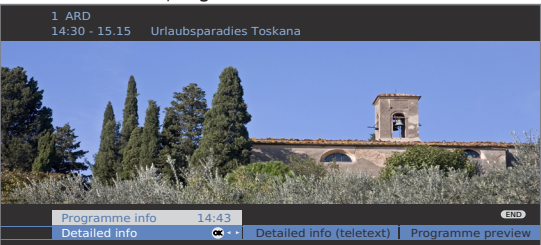
Yellow button: Go to the last viewed station.

Use this button to quickly switch back and forth between two stations. For MHEG-5 see page 18 or on this page at the right lower column.



Blue button: Show programme info.

For MHEG-5, no programme info is available.



Permanent display of time



Press twice in rapid succession, the time is displayed permanently.



⌚ or **END:** Hide time.

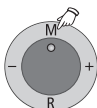
Selecting the picture format



Press the **Picture format button** until the desired picture format is set or with



◀ ▶ to select the desired picture format.



The **Panorama** picture format can be set between proportionally correct and format filling display. Black bars are visible on the left and right of the picture in the proportionally correct display.

Switch: Keep the **M** button on the TV pressed, at the same time, press the **Picture format** button on the remote control briefly.



Reset: Press the same button combination again.

Explanations of the picture formats:

➡ The setting options depend on the transmitted picture content.

16:9 Proportionally correct display of 16:9 broadcasts.

4:3 Proportionally correct display of 4:3 broadcasts.

Panorama Proportionally correct or format filling display (as-delivered state) of 4:3 broadcasts on the 16:9 screen. Station logo and subtitles remain visible.
See above for switching the Panorama mode.

Cinema Proportionally correct, format filling display of 4:3 broadcasts on 16:9 screens. Station logo and subtitles usually not visible.

Zoom Proportionally correct display. Maximum picture magnification.

PALplus Is a 4:3-compatible 16:9 picture broadcast supplied by the station which is detected automatically.

If a high resolution video signal is displayed on the TV set or fed in via the interfaces PC IN, HDMI1/DVI, HDMI2/DVI oder COMP. IN, the picture formats 16:9 TV, 4:3 TV and 16:9 PC, 4:3 PC and Zoom can be set.

Move picture vertically



➡ In normal TV mode without other displays.

▲ ▼ Move picture up/down.

To show subtitles or news tickers which have been cut off, the picture can be moved up or down in the picture formats **Panorama**, **Cinema** and **Zoom** (not with high resolution signal) with the **arrow buttons** ▲ ▼.

➡ For TV sets with MHEG-5 software you can switch back and forth quickly between two stations using these buttons (see also on page 18).

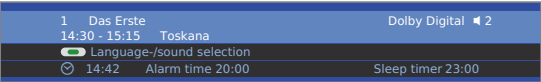
Daily operation

Status display

➡ In normal TV mode, without other displays.

END

END: Show/hide status display.
For MHEG-5, **INFO**-button.



You will see the number and name of the station and the title of the current broadcast (if available) and the sound identification in the top two lines.

A selection (see right hand column), the time and, if activated, the alarm time and switch-off time appear at the bottom depending on the DVB station.

Explanations of the sound identification:

Transmitted audio signal:

- Mono Mono audio transmission analogue
- 2-sound Two sound broadcast (Sound1/Sound2) analogue
- Stereo Stereo sound transmission analogue or digital (PCM)
- Dolby Digital Dolby Digital sound transmission (DD)
- dts dts sound transmission
- MPEG MPEG sound transmission
- ProLogicII Dolby Pro Logic II sound transmission

Used loudspeakers:

- ◀2 Playback via TV loudspeakers (L/R Stereo).

Additional selection possibilities for DVB stations

In the status display additional selection possibilities can be offered for specific programmes depending on the DVB programme provider.

- ➡ The **coloured buttons** do not work as described below for TV sets with MHEG-5 software, but they operate as described on page 33 (Digital teletext).
- ➡ If you press one of the **coloured buttons** or the **TEXT button** while the status display is on, the appropriate selection menu is displayed.
- ➡ The selection line is also displayed automatically when a new broadcast with different options to the previous broadcast begins or when you switch stations.

The following options are possible:

- Red button:** Channel selection for multi-channel providers

Green button: Language/audio selection

Yellow button: Time selection

Blue button: Protection of minors

TEXT

TEXT: DVB subtitles

The selection menus are only available as long as the status display is shown. However, you can call them again by pressing the **END button**.

Other setting options for DVB stations

You can make general presettings for DVB stations under **TV menu → Settings → Miscellaneous → DVB settings**.

- Subtitle mode Here you can preset whether a subtitle is always to be displayed as soon as it is offered by the station. A special subtitle for impaired hearing can also be selected. Subtitles are not offered by all stations. Many stations only broadcast subtitles by teletext.
- Audio mode Here you can preset whether you always want to hear a special sound for impaired sight as soon as it is offered by the station.
- DVB character set Select the DVB character set so that the title of the broadcast of your favourite received station or the texts of your CA module are displayed correctly.

Managing stations

TV stations

Various options for managing stations are available via the TV menu. For example the description for TV stations. For radio stations the same applies, except that the Radio menu is called in Radio mode (see also page 36).

➡ Station management is not possible if a programmed timer recording is still pending.

Search/update stations – Search wizard

In the search/update with the search wizard, new stations are searched for which have not yet been stored.

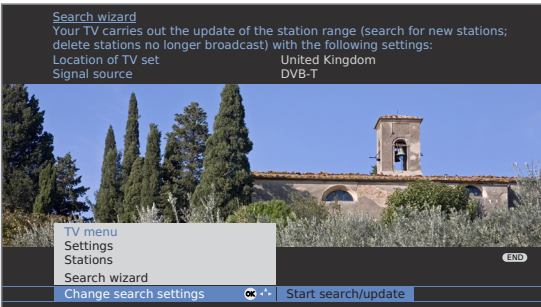
- ➡ You have to repeat the initial installation (see page 12) and automatically search for new ones if you want to delete all the existing stations and automatically search for new ones. Do also use the first installation if you want to change to receiving MHEG-5 stations (attend restrictions for DVB software update, see page 35).



Call **TV menu**.

- ◀ ▶ Select **Settings**,
▼ go to the menu line below.
- ◀ ▶ Select **Stations**,
▼ go to the menu line below.
- ◀ ▶ Select **Search wizard**,
▼ go to the menu line below.

In the upper input text the current search settings will now be displayed:



If you want to change these search settings:



- ◀ ▶ Select **Change search settings**,
OK wizard prompts search settings.

If you agree with these settings:

- ◀ ▶ Select **Start search/update**,
OK start search.



Red button: Abort current search/update.

Explanations of some search settings:

- Set location** Select the country for country-specific defaults and station sorting.
- Signal source** Here select antenna, cable, or satellite, depending on where you want to search for new stations. Here you can also call a configuration of the DVB-T and DVB-S antennae with the green button (see page 13).
- Antenna/cable:** With selection of set location the conventional TV standard/colour standard is the default. This should only be changed if stations with other standards are to be searched.
- Encrypted stations** You can state whether coded stations are to be searched for in the search/update. Select **yes** then coded stations are also searched for. However, these stations can only be received in connection with a CA module and the appropriate Smart Card. Ask your dealer which Smart Card you need to receive certain stations. Handling of the CA module is described on page 34.

DVB-T If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

DVB-C With the selection of set location the conventional settings will be preset. Only change this if you know other symbol rates and modulation types or if you have to specify the network ID for your cable network (information available from your cable network provider). If you want to run the station search independently of the channel grid, select **frequency search** for the search method.

DVB-S If you want to run the station search independently of the channel grid, select **frequency search** for the search method. The symbol rate is specified by the satellite provider and does not normally need to be adjusted.

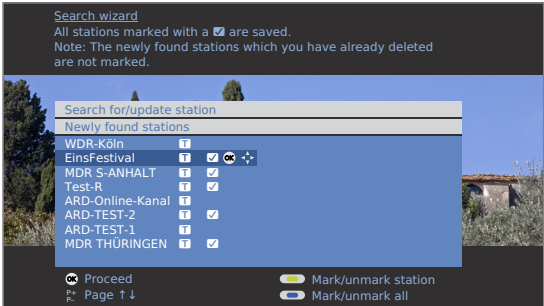
Managing stations

Search for/update stations – handling of new and no longer found stations

After the automatic search/update has been completed, the number of new found stations is displayed.



OK List of newly found stations.



OK Select station,



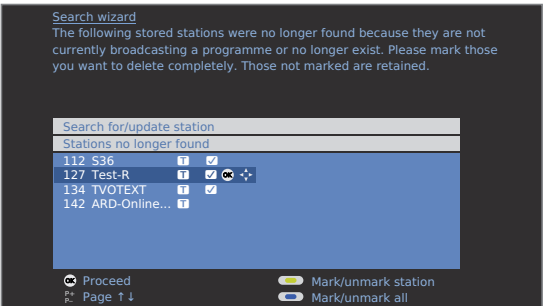
Yellow button: Mark / unmark station

Blue button: Mark / unmark all

OK saves the marked station.

Afterwards, if available, a list of the stations which are stored but temporarily not broadcasting or which no longer exist is displayed.

The number of the used memory location is in front of the station. Please select the stations you want to delete permanently.



OK Select station,



Yellow button: Mark / unmark station

Blue button: Mark / unmark all

OK deletes the selected stations.



END: Exit search wizard.

Search/update station – manual search



Call **TV menu**.

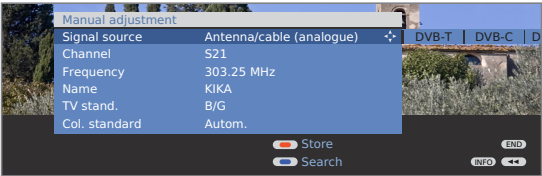


OK Select **Settings**,
go to the menu line below.

OK Select **Stations**,
go to the menu line below.

OK Select **Manual adjustment**,
OK call input box.

You can enter or edit the station data in the following lines:



Or:



Blue button: Starts **Search** and searches for next station.

Red button: Stores station.

Only the stations for the selected signal source are stored which are not available in the station list.

Stations which are already available for the selected signal source in the station list are displayed with grey shaded station number and name. These stations can only be overwritten with the **red** button.

Explanations of some search settings:

Various settings are possible depending on the selected signal source. Some settings have already been explained in first-time operation (see page 12 onwards).

Signal source Selection of the range in which you want to search for the station.

Channel Direct input of the channel.

Frequency Direct input of the station frequency.

TV stand. Input of the TV standard of the station, (B/G, I, L, D/K, M, N).
Ask your dealer in this regard.

Col. standard Input of the colour standard of the station, (PAL, SECAM, NTSC-V, PAL60, Autom.).
Ask your dealer in this regard.

Managing stations

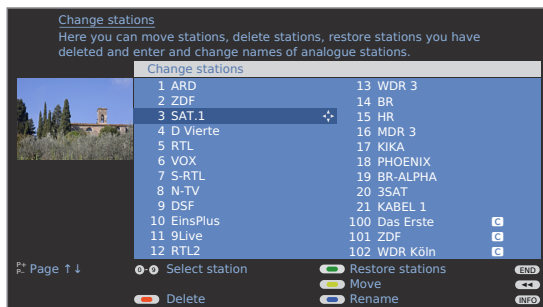
Change, delete, move, rename, restore station

- ➡ **Change station** can also be called via the station list (page 18).



Call **TV menu**.

- ◀ ▶ Select **Settings**,
▼ go to the menu line below.
- ◀ ▶ Select **Stations**,
▼ go to the menu line below.
- ◀ ▶ Select **Change stations**,
OK call list of stations.



In this menu you can delete, move, rename or restore stations.

- ◀ ▶ ▲ ▼ or **numeric buttons**: to select the appropriate station. Scroll with **P+ / P-** if necessary.

Delete station



Red button: Starts **Delete** station.

- ▲ ▼ Select several stations to be deleted if necessary,
OK to execute the delete.

Move station / Change order

- ➡ Not possible for MHEG-5 stations.
- ➡ Stations can only be resorted within the signal source block.



Yellow button: Starts **Move** station.

- ▲ ▼ mark several stations if needed,
OK selection ended,
- ▲ ▼ Select insertion position from which the selected stations are to be inserted,
OK to execute the move.

Rename station

- ➡ Not possible for MHEG-5 stations.
- ➡ DVB stations which also transmit the station name cannot be renamed. In this case, the **Rename** function is hidden.



Blue button: Starts **Rename** station.

Under the 1st letter of the name you will see a line indicating the current input position.

- ▶ Input position one position to the right (also for blanks).
- ◀ Input position one position to the left (deletes the character).



Enter the letters one after another with the numeric buttons on the remote control. Like using a mobile phone keypad, press a numeric button until the desired character appears. The available letters are printed respectively on the buttons. Different special characters can be selected with button 1.



Green button: Switch upper/lower case letters.



OK to save new name.

Restore stations

Stations which have been deleted from the station list can be restored.



Green button: Starts **Restore** stations.



- ▲ ▼ ◀ ▶ Select station,
OK station is restored.

The restored station is sorted in at the end of the respective signal block according to its signal source.

Managing stations

Put together / change favourites list

Each favourites list can contain up to 99 stations. You can put together the favourites lists to suit your requirements (e.g. topic lists). Other persons using this TV set can create their own favourites lists. The favourites lists also have the advantage that the stations of different signal sources can be stored in the order you wish.

➡ **Change favourites** can also be called via the favourites list (page 19).

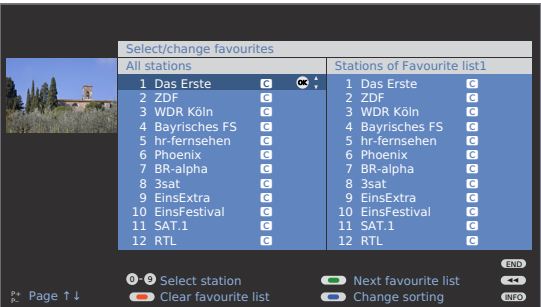


Call **TV menu**.

▶ Select **Settings**,
▼ go to the menu line below.

▶ Select **Stations**,
▼ go to the menu line below.

▶ Select **Select/change favourites**,
OK calls list of all stations and last active favourites list.



Green button: Select the next favourites list.

Rename favourites list

➡ Favourites list (right column) must be selected.
If not, change the list with ▶.

Blue button: Starts **Rename favourites list**.



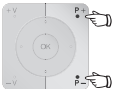
Numeric buttons: Enter new name (same procedure as under Rename station, see page 26).



OK to save new name.

Add station to favourites list

➡ All stations (left column) must be selected.
If not, change the list with ◀.



P+/P- Scroll in the pages of the station list if necessary.



▶ ▼ Mark station or select the station with the **numeric buttons** (enter the initial letters in case of alphabetical station order) which you want to enter in the favourites list.



OK transfers the station to the favourites list. The new station is inserted at the end of the favourites list. Proceed in the same manner with additional stations.

Delete station from favourites list

➡ Favourites list (right column) must be selected.
If not, change the list with ▶.



▶ ▼ mark station to be deleted.

OK removes the marked station from the favourites list.

or:



Red button: Starts **Clear favourites list**.



OK confirms clear favourites list.

Move / change order of stations in the favourites list

➡ Favourites list (right column) must be selected.
If not, change the list with ▶.



▶ ▼ mark station to be moved.



Yellow button: Starts **Move station**.



▶ ▼ Select insertion position at which the selected station is to be inserted.



The insertion position can also be selected with the numeric buttons.



OK to execute the move.

Picture in Picture

Picture in Picture (PIP)

The concurrent display of two different images is referred to as Picture in Picture.

- ➡ The coloured buttons do not work as described below for TV sets with MHEG-5 Software, but they operate as described on page 33 (Digital Teletext).
- ➡ A concurrent display of two HDTV signals is not possible.
- ➡ A concurrent display of two coded stations is not possible.
- ➡ Picture change and station selection is restricted during recording.
- ➡ In sets **without** Digital Recorder DR+, the PIP mode is restricted to AV-PIP (one TV station and one AV source). If a satellite tuner is upgraded in these sets, PIP mode from digital satellite picture and analogue picture via cable TV or house antenna is possible additionally.

Your TV set distinguishes between two PIP displays:

Split Screen In this case screen is divided in the middle and the additional PIP image is shown on the right side of the screen. Both images are compressed horizontally and each gets half of the screen.

Small PIP In this case a small PIP image is inserted in the TV picture.

The PIP operation distinguishes between two functionalities:

Standard PIP Stations freely selectable and changeable for PIP and TV picture (coloured buttons have PIP-specific meaning, see below).

iPIP Only in sets with Digital Recorder: The TV picture is moved to the PIP picture when you press the PIP button. The station of the TV picture is now freely selectable. When you press the PIP button again, the PIP picture returns to the TV picture and the PIP window closes.

Start and end picture in picture mode

PIP

Show/hide PIP.

In the Standard PIP function a green frame indicates that the station selection acts on the PIP picture. A white frame means that the operation refers to the main picture. If the frame is blue, the station play is active in the PIP picture. If the iPIP function is activated, this is indicated by an orange frame.

- ➡ For TV sets with MHEG-5 Software, you switch from the green bar/frame to the white by using the **PIP** key. The next time you press the **PIP** key, PIP is switched off.

Standard PIP operation:

PIP as freeze picture

- ➡ The frame is green, if not, press the **green button**.



Red button: Freeze picture in PIP on / off.

Swap contents of PIP and main picture

- ➡ The frame is green, if not, press the **green button**.



Yellow button: swaps contents of TV picture and PIP picture.

Select the PIP picture

- ➡ The frame is green, if not, press the **green button**.

Select the station as usual.



Select the station for the main picture

- ➡ The frame is white, if not, press the **green button**.

Select the station as usual.



Scan station in the PIP

- ➡ The frame is green, if not, press the **green button**.



Blue button: Start Scan stations.

The frame turns blue, the stations now change automatically.



Blue button: Stop Scan stations.

The frame is green again.

Picture in Picture

Configure Picture in Picture (PIP) mode

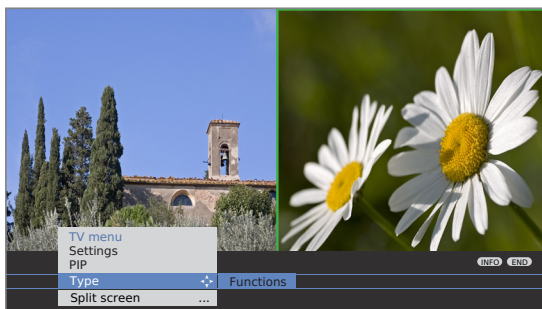
In the PIP menu you can set the PIP type (Split Screen or Small PIP), the PIP function (Standard PIP or iPIP) and the position of the small picture.

Start PIP menu

- ➡ PIP mode started, if not, press **PIP button**.
- ➡ The frame is green, if not, press the **green button**.

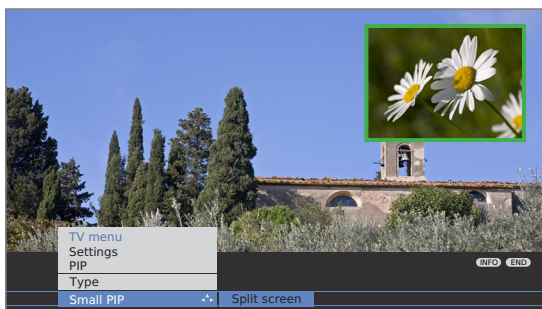
(MENU)

Call the PIP menu.



Switch to Small PIP / Split screen

- ➡ PIP menu open.



- ◀ ▶ Select **Type**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **Small PIP** or **Split screen**.

Change position of the PIP small picture

- ➡ Nothing else is displayed on the screen apart from the status line.

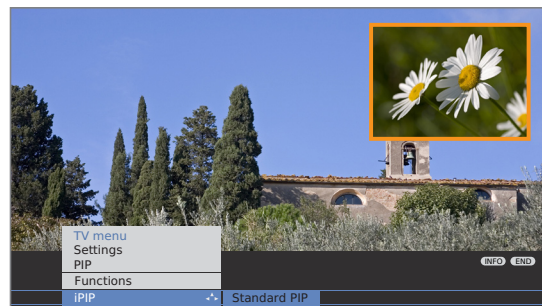


- ▲ ▼ ◀ ▶ Move the PIP into a corner of the screen.

The position of the small picture can also be selected under **Position** in the PIP menu.

Switch to iPIP / Standard PIP function

- ➡ PIP menu open.



- ◀ ▶ Select **Functions**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **iPIP** or **Standard PIP**.
 - In iPIP the frame around the PIP picture is orange.

iPIP operation:

(PIP)

When the iPIP function is set, the currently displayed picture becomes the PIP picture on pressing the **PIP button**. You can select other stations for the TV picture and still keep an eye on the PIP picture. You can temporarily "ban" commercials or programme sections to the PIP picture in this way.

(PIP)

The PIP picture becomes the TV picture again (PIP off).

Electronic Programme Guide

Electronic Programme Guide – EPG

EPG stands for Electronic Programme Guide and provides you with on-screen programme details. With the system, as with a printed programme guide, you can learn about the current programme. In addition programmes can be sorted according to certain topics, memorised, and also recordings can be programmed.

Starting and ending EPG



Switching EPG on / off

- ➡ A wizard will guide you through the necessary presets the first time you start the EPG. If you have analogue reception, you enter the data capture for analogue stations after that (see next page).
- ➡ For TV sets with MHEG-5 software, EPG is only possible for DVB-T stations.



The display of the programme guide is divided into two branches. The programme list (bottom) is influenced by certain specifications (top).



Blue button: Switches between the upper default lines **date, ..., topics** and the lower programme list.

Switching and memorizing with the programme list

- ➡ In the programme list first all currently running programmes are listed.
- ➡ You are in the lower programme list, if not, press the **blue button**.



▼ ▲ Select station,
OK view / memorise.

View The programme is in progress. The TV set switches to the marked programme.

Memorise The programme has not started yet and is memorised. A **✓** appears in front of the programme. The TV set switches over automatically to the beginning of the programme or, if set in the EPG menu (page 31) on from standby mode.

Adjusting the programme list



- ➡ The selection is at the top of the specifications, if not, press the **blue button**.
- ▼ ▲ Select **Date, Time, Stations** or **Topics**.
- ◀ ▶ Select defaults within the respective line.



Example If you are looking for the next news broadcast, select today's date, **until 17.00** for example for the time, **all** under Stations and **News** under Topics. Then all the news broadcasts to begin shortly are listed in the programme list below it.

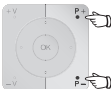
The type of station listing in the programme list depends on the setting of **sorting** in the EPG menu (page 31).

Time entry If the line **Time** is selected, then you can enter the time after which the programmes will be displayed, via the numeric buttons of the remote control. The broadcasts are sorted according to the order of the station list within the selected time window.

Stations If a **favourites list** has been selected, only the programmes of stations from the favourites list are displayed in the programme list. If **"..."** has been selected, a single station can be selected. Then, only the programmes of this station are displayed.

Tip Before pressing the **blue button** to leave the upper selection lines, select one of the preceding lines. If you then switch back to the programme list, you can change this menu line with **◀ ▶**, without having to leave the programme list. If you have marked **Time**, then you can enter the time, after which the programmes will be displayed, with the numeric buttons of the remote control.

Paging through the programme list



P+/P- paging backwards / forwards.

In the entries for **Date** and **Time**, you will see changes in time as well as in date when paging. Scrolling in the programme list is also possible when the selection is at the top of the specifications.

Electronic Programme Guide

Calling additional information about the programmes

➡ Brief information about some of the programmes is displayed below the programme list of the broadcasts.

TEXT

You can call detailed information with the **TEXT button** if this function is offered by the TEXT icon in the lower left.

Programming a recording for a recorder

➡ The selection is in the lower programme list, if not, press the **blue button**.



▼ ▲ Mark the desired programme.



Red button: Starts recording wizard.

Change or confirm timer data if necessary (see page 44, "The direct way to record").

Then a **red dot** will be displayed in front of this programme as identification.



Red button: Deletes the already programmed recording of the red marked programme from the timer. If the timer data have been transferred to an external recorder, then the timer must also be deleted there.

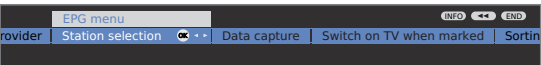
Configuring EPG

Start the EPG menu

➡ EPG mode is started, if not, press the **EPG button**.

MENU

Call the **EPG menu**.



Settings in the EPG menu:

Select Provider (only for analogue stations), **Station selection**, **Data capture**, **Switch on TV when marked**, **Sorting**.

Explanations of setting possibilities in the EPG menu:

Select provider In **analogue TV reception** there may possibly be different providers who transmit the EPG data for certain station packages. To get another range of stations, you can change the provider with the **Provider selection**. If the provider you are looking for is not in the list, then use the **yellow button** to perform a **Provider search**. The stations offered by the provider will be displayed in a list.

Station selection You can remove certain stations from the programme guide. These stations must be deactivated in the **Station selection**. First, all stations for which programme information can be provided are marked with a **✓**. Stations without a **✓** are not included in the programme guide. With the coloured buttons, you can select or deselect individual stations, select all stations at once or select only the stations in the favourites list.

Marking the stations according to reception ranges:
E analogue stations via antenna/cable for the data supplied by the current provider.
T digital terrestrial stations DVB-T,
C digital cable stations DVB-C,
S digital satellite stations DVB-S ¹⁾.

Data capture If you want to use EPG for analogue and digital stations, select **on (for DVB + analogue)**. If you want to use EPG and only have DVB reception, select **on (only for DVB)**. If you are not using EPG and therefore do not want to receive any EPG data, select **off**.

After making changes in the EPG menu, or each time the power switch has been switched off, the EPG data must first be captured. To do this switch on the device and select (for analogue stations) the station that you have defined as provider, and let the TV set run for about 1 hour with the selected station. Or switch the TV set to standby mode. After 2 minutes the display on the TV lights orange and the EPG data capture begins. When the data capture process has concluded the display will return to red. The data capture process is usually performed between 2:00 am and 5:00 am, when the TV set is in standby mode.

Switch on TV when marked If the TV set is switched on then if there are memorised programmes the TV set will switch over to these stations. If the TV set is in standby mode when a memorised programme begins, then you can specify here whether the set should be turned on in this case. If you have set **"yes"** in the menu, the TV set will be switched on. If you are not in at the time, a safety prompt makes sure that the TV switches off automatically after 5 minutes without your acknowledgement.

Sorting The programmes can be sorted either according to their start time (sorting **according to start time**) or according to stations as in the station list (sorting **according to station / favourites list**).

¹⁾ if upgraded

Teletext

Teletext

Your TV set supports the two operating systems TOP Text and FLOF. Up to 2,000 pages are stored so that you have quick access.

Starting and ending Teletext

TEXT

Switching Teletext on / off.



Page selection with the coloured buttons

- Red button:** back to the previously viewed page.
- Green button:** on to next page.
- Yellow button:** to next topic.
- Blue button:** to next range of topics.

The coloured bars (for TOP) or the coloured text (for FLOF) in the second to last line indicate which coloured buttons you can use to page through topic areas and topics.

Teletext page displays

0 AV

0 AV: Stop self changing pages.

9 wxyz

9: Enlarge page (press several times).

PIP

PIP button: Show / hide TV picture.



Additional page selection possibilities

INFO

1st possibility:

Call **overview page 100**.

1 2 7
ab pqr

2nd possibility:

Directly enter the page number.



3rd possibility:

➡ The page includes 3-digit page numbers.

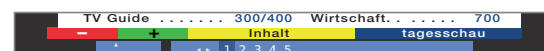
▼ ▲ mark desired page number.



OK to call the page.

4th possibility:

➡ The page consists of several sub-pages indicated by the selection option on the last line.



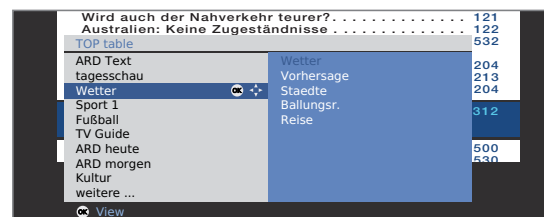
◀ ▶ Page through sub-pages.



Call TOP table

➡ The table can only be called for stations with the TOP operating system.

OK Call **TOP table**.



- ▼ ▲ mark topic area,
- ◀ ▶ select topic column,
- ▼ ▲ select topic,

OK to call the page.



Teletext

Programming timer recordings via Teletext

- Teletext is started, if not, press the **TEXT** button.



Call the programme pages of the current station.



Green button: Go to the appropriate page.



- ▼ ▲ Select the desired programme, **OK** to programme the recording.

Change the appropriate recording data in the following menu **Timer data** (see also page 44, "The direct way to record").

OK to confirm.

Teletext menu

In the Teletext menu you can activate messages, reveal pages and configure the teletext with the **Settings** menu function.

Starting the Teletext menu

- Teletext is started, if not, press the **TEXT** button.



Call the **Teletext menu**.



Explanations of the Teletext menu functions:

- Newsflash** The current page is hidden when you activate **New mess..** A symbol at the top left indicates that the function is active. If the contents of the message are updated and it is a small newsflash, this is displayed in the TV picture. If it is a full screen page, the symbol is displayed in blue and the page can be called with the **OK** button.
- Reveal** Shows concealed information, e.g. for quiz questions or VPS pages in the programme preview pages.

Explanations of the Teletext menu functions:

- Recording wizard** A wizard for **recording** via teletext helps to programme an external recorder or the integrated Digital Recorder, see also left column.
- Settings** Other Teletext menu functions:
- Preview pages** Input of the first teletext programme preview page if this deviates from the factory setting (page 301).
- Sub-title pages** Input of the teletext subtitle pages for every station if this deviates from the factory setting (page 150).
- Personal text pages** Define up to six teletext pages which can be opened later from a list in the menu **Teletext functions → Personal text pages** (in TV mode press **green button**, see page 22).
- Character set** Teletext character set can be switched to other languages (Russian, Greek, Polish and Turkish).
- HiText** Improved graphic representation of the Teletext. (Not offered by all stations.)

Digital teletext (MHEG-5)

In the UK or Ireland, the teletext for DVB-T stations is transmitted as per the MHEG-5 standard. It contains text, graphics, functions and links.

- Only for TV sets with MHEG-5 software.
- At the moment only available in United Kingdom and Ireland.
- Digital teletext is not available when DVB-subtitles are being displayed.

The operation of these menus depends on the particular provider. Normally after a station is changed, the provider broadcasting the digital teletext makes an introductory offer for this service on the screen via menu selection. Follow these notes.

If no message appears telling you how to switch to digital teletext after switching to another station, press the **TEXT** key. If a selection for DVB subtitles is available, this item must be hidden before.

Depending on the provider's respective offer, you can use the ▲ ▼ ◀ ▶ buttons and the **OK** button, the **coloured keys**, the **END/TEXT** button and sometimes even the **numeric buttons**.

If you want to close the digital teletext, just select a different station using the **P+/P-** buttons or follow the menu prompts on the screen.

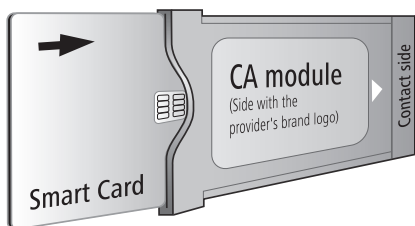
Conditional Access module (CA module)

In order to be able to receive digital stations, a Conditional Access module (CA module) and a Smart Card must be inserted in the CI slot of your TV set (see pages 5 and 6).

The CA module and the Smart Card are not part of the TV set's scope of delivery. They are usually available from your dealer. Loewe provides no guarantee for the functioning of the CA module.

Inserting the smart card into the CA module

Push the Smart Card into the CA module as far as it goes so that the side with the gold coloured contact chip is facing the side of the CA module marked with the provider's logo. Note the direction of the arrow printed on the Smart Card.



Inserting the CA module in the CI slot

➡ Switch off the TV set's power switch.

Open cover on the rear of the set.



Insert the CA module carefully into the CI slot with the contact side first.

If you are standing in front of the TV set (display) then the logo on the CA module must be pointing to the rear. Do not use force. Make sure the module is not twisted in the process.

The eject button protrudes slightly when the CA module is inserted correctly.

Searching for encrypted stations

➡ The search wizard must only be started when the setting possibility **no** has been selected for the search for coded stations in first-time start-up or no CA module has been inserted.

MENU



Call **TV menu**.

- ◀ ▶ Select **Settings**,
▼ go to the menu line below.
- ◀ ▶ Select **Stations**,
▼ go to the menu line below.
- ◀ ▶ Select **Search wizard**,
▼ go to the menu line below.
- ◀ ▶ Select **Change search settings**,
OK Wizard guides you through the search settings.

Description of the search settings, see page 24.

Calling CA module information

➡ This menu is available with digital stations only.

MENU



Call **TV menu**.

- ◀ ▶ Select **Settings**,
▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,
▼ go to the menu line below.
- ◀ ▶ Select **CA module: xxx**
(xxx corresponds to the CA module provider),
OK Call information.

The content of this menu depends on the provider of the CA module.

Removing the CA module

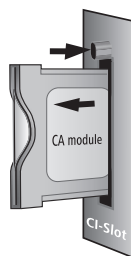
➡ Switch off the TV set's power switch.

Open cover on the rear of the set.

Press in the eject button on the appropriate module drawer, the module is released.

Remove the module from the set.

Close the cover again.



Software update

TV base software and DVB software

Your TV offers you the option of updating the TV base and DVB software. The current software versions are broadcast by satellite (only via Astra 1 at present) or can be installed in your set by a USB stick. Ask your dealer about the possibility of updating the software with a USB stick.

- Location of TV set UK or IRL: With the DVB software update either MHEG-5 or DVBi3 is updated depending on the selection during the first installation. After this update it is not possible any longer to switch between MHEG-5 or DVBi3 software via first installation.
- MHEG-5 software update only available via USB stick and DVB-T.

Automatic search for new software via satellite

If your set has a upgraded satellite tuner, it determines overnight whether a new software version is available via satellite. However, the TV set must remain in standby mode (do not switch off with the mains switch).

If a new software version has been found, the set informs you with an on-screen message the next time it is switched on (see right column – Load new software).

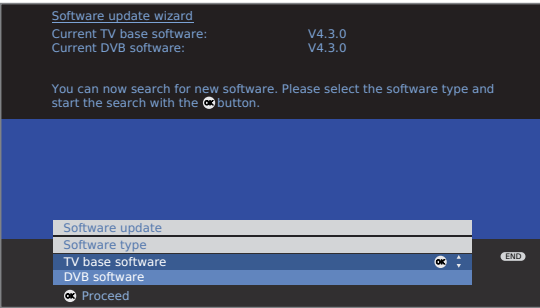
Manual search for new software via USB /satellite

If it is not automatically displayed that a new software is available when switching on the set, you can also run a manual search. The system first checks whether a software update is available on an inserted USB stick. If not, an updater is searched for via satellite if up-graded.



Call TV menu.

- Select **Settings**,
 - go to the menu line below.
- Select **Miscellaneous**,
 - go to the menu line below.
- Select **Software update**.
OK calls software update wizard.
The software versions currently loaded in the set are listed.

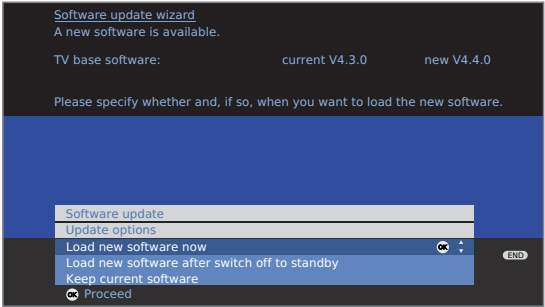


- Select software type:
Select **TV base software** or **DVB software**,
OK start search.

The following on-screen message appears if new versions are available.

Loading new software

- New software available via search.
- If both a new TV and a new DVB software are available in the automatic search for new software versions via satellite, you can select the software type which is to be updated.



- Select update option:
Load new software now
Load new software after switching off to standby (update after switching off)
Keep current software (no update desired).
OK more or exit wizard.
OK start software update.

A bar is displayed to inform you about the progress of the load process. During the loading process do not switch off your device via the power switch! This may last up to 20 minutes. You will be informed when it is finished.

At the end of loading:
Turn off the TV set off with the power switch and turn it on again. This is unnecessary when the software is loaded with the **Load new software after switching off to standby** mode update option.

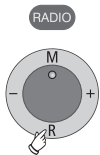
If a new software has not been updated via satellite, you will be reminded of this several times when switching on the set.

Radio

Radio mode

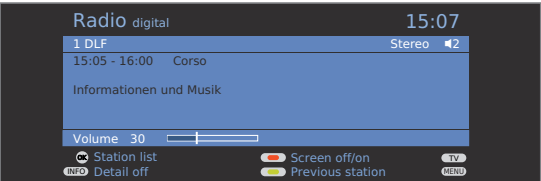
You can only receive radio stations via DVB.
If you do not have DVB radio reception then you can play audio from an external device via the TV set using the **audio/AV inputs**.
➡ For TV sets with MHEG-5 software, the buttons may be configured differently by the provider.

Radio mode on



RADIO button on the remote control.

Or:
R on the operating ring on the TV set.



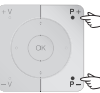
You see and information window about the currently set station.



Minimise Radio dialogue to an info line / maximise.



Station switching



P+/P- or the **numeric buttons** of the remote control.

Or:
+ / - on the TV set operating ring.



Or:
OK call the **station list / favourites**.

➡ The selection of the stations / favourites is the same as the procedure in TV mode (see page 18, 19).

Setting the volume



V+/V- Volume louder / quieter.

Other sound settings are the same as for the volume setting in TV mode (see page 20).

Audio adjustment



Call **Sound adjustment**.
Other settings as for TV mode (see page 20).

Switching the screen on/off



Red button: Switch off the screen.

The **LED display** on the set changes from green to orange.

Switch on the screen with the remote control:
Red button, **OK button** or **RADIO button**.

Switch on the screen on the TV set:
Press **R** on the TV set operating ring.

Radio menu

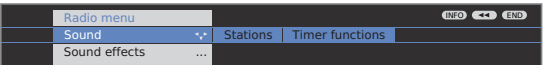
In the Radio menu, you can set the sound, search for and store radio stations (automatically or manually), change stations and set switch off/alarm functions.
The settings are made as described in TV mode.

Call radio menu

➡ Radio mode switched on,
if not, press the **RADIO button**.



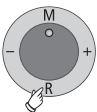
Call the **Radio menu**.



Switch off radio mode



TV button on the remote control.



Or:
R on the operating ring on the TV set.

EPG – Electronic Programme Guide (radio)

For the DVB radio stations you can also use an electronic programme guide, if the station that is currently active supplies data.

Starting and ending EPG

➡ Radio mode switched on,
if not, press the **RADIO button**.



Switching EPG on / off

➡ The EPG functions in radio mode are the same as in TV mode. Read from page 30 onwards for further information.

Operating additional equipment

Device connection wizard

Connecting additional devices to the TV set

The device connection wizard serves for connecting new devices to the TV set or changing the wiring.

- ➡ New devices should not be connected until they have been logged in in the connection wizard.



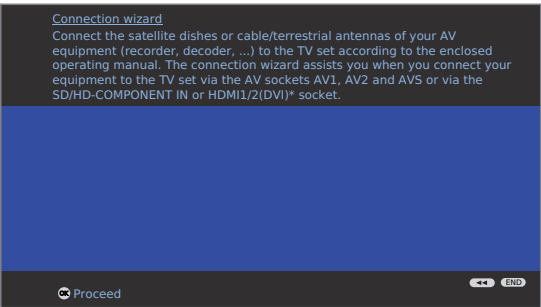
Call **TV menu**.



- ◀ ▶ Select **Connections**,
▼ go to the menu line below.
- ◀ ▶ Select **New devices/modifications**.
OK Call wizard.



END: It is possible to run the wizard only partially at any time.
You have to confirm changes on a page with **OK**.



Follow the instructions on the TV set.
The following illustrations provide an overview of the possible options.

Connection diagram



The connection diagram shows the devices that are currently configured. DVD player on AV1 and DVD recorder on AV2 are factory pre-sets.

AV equipment selection

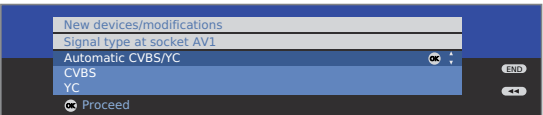


Yellow button: Place a check mark after the devices to be connected.

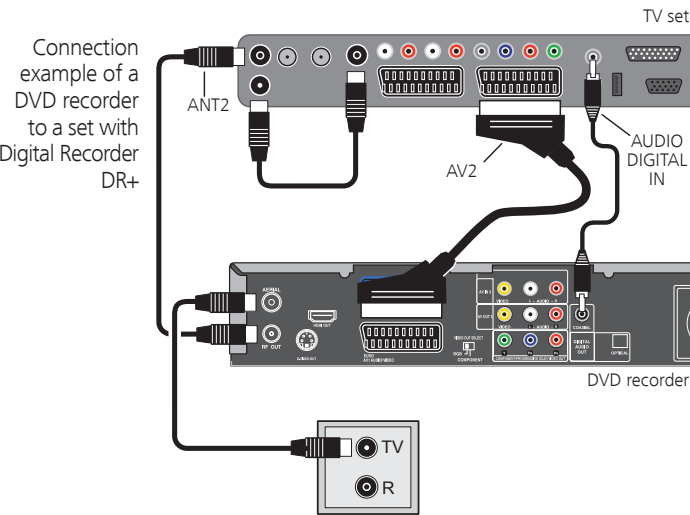
OK Proceed.

The connection plan is displayed again. Connect the devices to the back of the TV set (in this example the DVD player (DVD) to **AV1**, the DVD recorder (DVD•) to **AV2**).

Signal type



Select the signal type of your set. Leave the setting on automatic if you are not sure.



- ➡ Use EURO AV cable with the right angled plugs.

continued on next page →

Operating additional equipment

Explanations of important settings

- Signal type** The signal type of the connectable devices may be very different. If you are uncertain, leave the setting for **Signal** on **Autom.-CVBS/YC** (e.g. for DVD player/recorder) or **Autom.VHS/SVHS** (e.g. video recorder), otherwise select the appropriate signal type. See the glossary on page 60 for further information.
- Immediate playback** If the picture from a connected device is to be displayed immediately on the TV set during playback, select **yes**. A switching voltage is allowed so that you do not have to switch over manually to see the picture of the connected device. (See the operating manual for the connected reproduction device.)
When playing from Digital Link Plus devices, the picture is always displayed immediately, regardless of the setting.
- Assign digital audio input** Select the AV socket to which the device of which you want to hear the digital sound is connected. Connect the digital output of the external device to the digital input of the TV set (see page 43). If a device with digital audio is not connected then select **no**.

Connection variants of a DVD/video recorder

There are two possibilities for viewing the picture of the connected recorder:

1. Use appropriate cables in conjunction with the connections assigned by the connection wizard. This always offers the best quality and the greatest convenience, such as automatic switch over when playing from a connected device.
2. You are using the antenna connection between recorder and TV device. However this reduces the quality.

Connecting an antenna to the DVD/video recorder

If you want to receive and record analogue stations, it is useful to connect the recorder in with the antenna cable (as shown in the connection example on page 37 bottom right).

If the antenna connection is also used for the playback because the devices are not connected by EURO-AV cables, you have to search for the recorder station and save it in the TV set.

Proceed as follows (see also the operating manual of the connected recorder):



➡ Insert a DVD/cassette and press play.

Call **AV selection**.

◀ ▶ Select **VIDEO**,
OK to switch over.

If no picture is visible on the TV screen when playing the recorder, search for the recorder station automatically or set it manually.

To make sure no "normal" TV stations are found in the station search, pull the antenna plug out of the recorder antenna input temporarily (the cable to the antenna system).

Manual recorder station search:

➡ **VIDEO** is selected by the **AV selection**.



Call **TV menu**.

◀ ▶ Select **Settings**,
▼ go to the menu line below.

◀ ▶ Select **Stations**,
▼ go to the menu line below.

◀ ▶ Select **Manal adjustment**,
OK to call other settings.

For **Channel** enter "**E30**".



Blue button: Start search.

When you have found the recorder station:



Red button: Overwrite station slot.



Exit **TV menu**.

Plug the previously removed antenna plug back in.

If disturbances should now occur because a TV station is being broadcast on the same channel as the station of the recorder, then you must change the transmission channel on the recorder and scan for the recorder again on the TV set.

Operating additional equipment

Connecting devices to the HDMI (DVI) connections and playback



The HDMI connections (High Definition Multimedia Interface) permit digital video and audio transmission via a connection cable from a player, e.g. from the Loewe ViewVision DVD recorder.

The digital picture and sound data are transmitted without data compression and therefore lose none of their quality.

Your TV set automatically shows 24p movies (see glossary page 60) output by a player connected via HDMI, e.g. Loewe BluTech Vision, in the original 24p format. Film quality improvement (DMM) must be set to **on** here (see page 21).

Using a DVI/HDMI adapter cable, the digital video signals of a DVI player can also be played via the compatible HDMI connection. The sound must be fed in additionally.

HDMI and DVI both use the same copy protection method HDCP.

Connecting the device

Connect the device by an HDMI cable (type A, 19 pole) to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set.

If a DVI/HDMI adapter cable is used, the appropriate sound can be fed in via the audio input socket **AUDIO IN1** (analogue) or **AUDIO DIGITAL IN** (digital) on the TV set. See also page 43.

It is not necessary to log in HDMI devices in the connection wizard.

Playback from the device



Call **AV selection**.



◀ ▶ Select **HDMI1/DVI** or **HDMI2/DVI** socket, **OK** to switch over.

Start playback on the connected HDMI device.

The best possible format for the picture will be detected and set automatically.

Digital Link HD in appropriately equipped HDMI devices

As long as HDMI is selected as a memory location, all remote control commands which the connected HDMI unit can handle are passed on to it. The HDMI unit can therefore be installed in a concealed position and still be operated. Volume, Sound on/off, Sound adaptation and Picture format affect the operation of the TV set.

Switch back to TV mode to the station last viewed with the **TV button**.

Switch Digital Link HD on/off temporarily: Press the **TV button** for a little longer (approx. 1 second).

TV remote switch on via Digital Link HD

In the TV menu under **Connections** → **Miscellaneous** → **Remote TV switch on via Digital Link HD** you can define that the TV set switches on automatically from standby when a connected HDMI device displays a menu or a disk is inserted.

Connecting devices to the PC IN connection and playback



You can connect a PC or a SetTopBox (STB) to the **PC IN** socket and thus use the screen of the TV set as an output device.

➡ When connecting the TV set to a PC, set one of the following screen resolutions on the PC first:

800 x 600	60 Hz	(SVGA)	1024 x 768	60 Hz	(XGA)
1280 x 1024	60 Hz	(SXGA)	1360 x 768	60 Hz	(WXGA)

➡ When connecting a SetTop box, set the following screen resolutions according to the possibilities of the SetTop-Box:

SDTV:	720 x 576i	720 x 480i
	720 x 576p	720 x 480p
HDTV:	1280 x 720p	1920 x 1080i

Connecting the device

Connect the device via a VGA cable to the **PC IN** socket of the TV set (audio connection, see page 40).

A log-in in the connection wizard is unnecessary.

Playback from the device



Call **AV selection**.



◀ ▶ Select **PC IN** socket, **OK** to switch over.

Adapting the geometry (only possible with certain signals)

This is where the picture can be properly positioned and the position of the picture (horizontal and vertical) can be moved so that it fills the entire screen.



Call **TV menu**.



◀ ▶ Selecting and adjusting the **Geometry**.

Setting the colour standard (only possible with certain signals)



Call **TV menu**.



◀ ▶ Select **Picture**,
▼ go to the menu line below.
◀ ▶ Select and set **colour standard**:
for PCs: **RGB**,
für STB: **Ycc** (rare: **Ypp** or **RGB**)

If the wrong standard is set then the colours will not be correctly displayed.

Operating additional equipment

Connecting the audio signal from the PC or from the SetTopBox

Analogue audio signal:

Connect the analogue audio signal from the PC or the SetTopBox via stereo cable to the **AUDIO IN2** jack on the TV set.

The sound is played via the speakers connected to the TV set or a speaker system.

Digital audio signal:

► An external digital audio signal can be reproduced via the integrated Dolby Digital Decoder or via an externally connected digital audio amplifier.

Connect the digital audio signal from the PC or the SetTopBox via a simple cinch cable to the **AUDIO DIGITAL IN** socket on the TV set.

The digital audio input can be assigned to the PC IN socket via the **TV menu → Connections → Miscellaneous → Assign digital audio input**, see page 43.

For an external digital audio amplifier:

► External audio amplifier is already set in the sound components wizard (see page 42).

Feed the digital audio signal of the **AUDIO DIGITAL OUT** socket on the TV set to the external amplifier.

Connecting devices to the Component IN connection and playback



DVD players/recorders with component video connections can also be connected to the **Cb/Pb Cr/Pr Y** sockets (**SD/HD-COMPONENT**) of the TV set instead of to the EURO AV sockets.

The connecting cable with three cinch plugs transmits the picture information in better quality than is transmitted by a EURO AV cable. You need an additional cable for audio transmission.

Connecting the device

Connect the component video outputs of the external device via a triple cinch cable to the **Cb/Pb Cr/Pr Y** sockets on the TV set.

Connect the analogue audio outputs of the external device to the **AUDIO IN1 L/R** sockets on the TV set.

The sound will be reproduced via the TV set's speakers. Alternatively, connect the digital audio output of the ext. device to the **AUDIO DIGITAL IN** socket of the TV set.

Call **TV menu**.



◀ ▶ Select **Connections**,
▼ go to the menu line below.

◀ ▶ Select **New devices/modifications**.

OK calls the wizard.

OK continue to menu **AV equipment selection**.

▲ ▼ Select device at **COMP. IN**.



Yellow button: Activate **COMP. IN**.

For an analogue audio connection the audio is automatically reproduced via the TV set's speakers.

A digital audio signal must be assigned by **TV menu → Connections → Miscellaneous → Assign digital audio input** to the COMP. IN socket, see page 43.

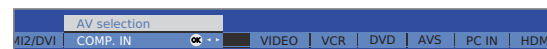
Playback from the device



Call **AV selection**.



◀ ▶ Select **COMP. IN** socket,
OK to switch over.



Adapting the geometry (only possible with certain signals)

This is where the picture can be properly positioned and the position of the picture (horizontal and vertical) can be moved so that it fills the entire screen.



Call **TV menu**.

◀ ▶ Select and adapt the **Geometry**.

Operating additional equipment

Sound components wizard

The sound components wizard helps you to configure the components used to play the TV sound.

The TV speakers alone or with active subwoofer, active speakers, analogue or digital HiFi/AV amplifier or the Loewe Sound Projector can be configured depending on what you want to use.

The sound components wizard is preset to playback via TV speakers at the factory.

If a Loewe Preceiver Auro with link cable has been connected to the TV set, you can only select between **TV speakers** and **Auro** in the sound components wizard.

Upgradable Audio AC3 / dts / Decoder

Your TV set may be equipped with an integrated Dolby Digital Decoder depending on the variant. This system has been introduced to the DVD video range and digital TV stations can also broadcast in digital multi-channel sound.

For playback of 5 audio channels the surround sound is reinforced by the deepest frequencies from the subwoofer channel (SUB), (5.1 reproduction = 5 audio channels and 1 subwoofer). All 5 audio channels are reproduced with the full frequency range from 20- 20,000 hertz and generate the original theatre effect.

The upgrade kit decodes Dolby Digital, dts and MPEG. Stereo signals can also be reproduced on multi-channel via Dolby Pro Logic and Dolby Pro Logic II. This is regardless of whether the signal is transmitted by an external device or received by the TV set.

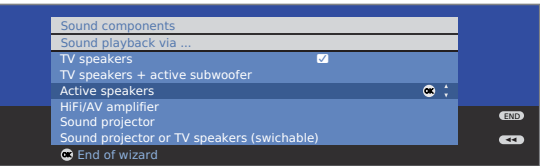
Equipment / upgrade of the different set variants and accessories see page 58 and 59.

Play sound via active speakers

Connect your active speakers to the audio outputs **AUDIO OUT L/R** of the TV set with cinch cables. Switch the TV set to playback via active speakers.



- Call **TV menu**.
- ◀ ▶ Select **Connections**,
▼ go to the menu line below.
 - ◀ ▶ Select **Sound components**.
OK calls the sound components wizard.
 - ▼ ▲ Select **Active speakers**.



OK Exit wizard.

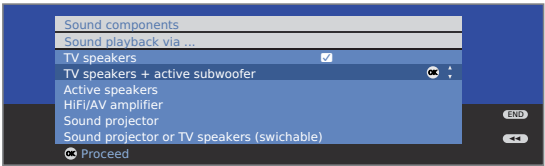
Play sound via TV speakers and active subwoofer

Connect your active subwoofer to one of the audio outputs **AUDIO OUT L/R** with cinch cables.

Set the TV set to playback via TV speakers and an active subwoofer.



- Call **TV menu**.
- ◀ ▶ Select **Connections**,
▼ go to the menu line below.
 - ◀ ▶ Select **Sound components**.
OK calls the sound components wizard.
 - ▼ ▲ Select **TV speakers + active subwoofer**.



OK continue to the settings for the subwoofer.

Explanations of the setting options:

- | | |
|-----------------------------|--|
| Adjust subwoofer level | Adapt the volume of the subwoofer to the volume of the TV speakers. |
| Specify crossover frequency | Set the transfer frequency of the subwoofer so that it corresponds to the lower limit frequency of the TV speakers. 90 Hz in this device. |
| Subwoofer phase | Switch to a station with music or start playback with music on a DVD player with P+/P- .
Test both values (0° and 180°) with ◀ ▶ and select the one where you get a clearer bass reproduction. |

Operating additional equipment

Connecting audio amplifiers

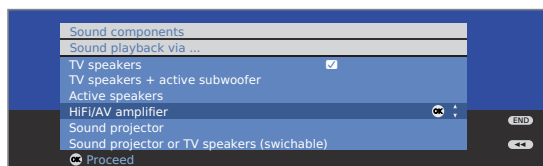
The sound component wizard permits configuration of different audio amplifiers (stereo amplifiers, surround amplifiers, analogue or digital) with different digital audio formats (Dolby Digital, dts, MPEG, and stereo/PCM). See the operating manual for the audio amplifier for more information.

MENU

Call **TV menu**.



- ◀ ▶ Select **Connections**,
▼ go to the menu line below.
- ◀ ▶ Select **Sound components**.
OK calls the sound components wizard.
- ▼ ▲ Mark the **HiFi/AV amplifier**.



OK continue.

- ◀ ▶ Select whether the sound is to be transmitted digitally or analogue to the the amplifier.

Continue, depending on the amplifier, see right column.

Explanations of the setting possibilities:

HiFi/AV amplifier Select the setting when an amplifier is connected and the TV speakers are not used.

Playback can be switched between TV speakers and amplifiers in the sound menu after logging in a hi-fi amplifier under **Sound via....**

Sound formats Specify sound formats which can be decoded with the digital amplifier (see operating manual of the used amplifier).

Type of amplifier Select either stereo or surround amplifier.

TV loudsp. as centre speaker For every connected surround amplifier, select whether the TV speakers are to be used as centre speakers. If so, make a connection between the centre output of the amplifier and the centre input of the TV set **AUDIO IN1 C** with a cinch cable.

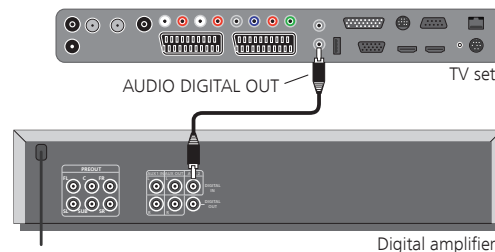
Attention: Do not use the centre speaker connection of the amplifier, use the centre pre-amp output instead!

Connecting digital audio amplifiers

Continuation of the left column above ...

For digital audio transmission: Select **yes**.

Connect the digital audio output of the TV set **AUDIO DIGITAL OUT** with the digital audio input of the amplifier via a cinch cable:



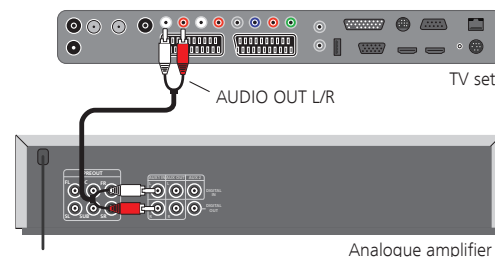
Set sound formats, amplifier type and other settings, see explanations of the setting possibilities (left hand column).

Connecting analogue audio amplifiers

Continuation of the left column above ...

For digital audio transmission: Select **no**.

Connect the analogue audio output of the TV device **AUDIO OUT L/R** via a stereo cinch cable to the analogue audio input of the amplifier:



Select amplifier type and other settings, see explanations of the setting possibilities (left hand column).

Operating additional equipment

Assignment of the digital audio input

In order to be able to hear the digital sound of an external device connected to an AV input, an AV input can be assigned to the digital audio input socket **AUDIO DIGITAL IN**. When switching to this AV input, the digital audio signal applied to the **AUDIO DIGITAL IN** input is passed on to the upgradable integrated Dolby Digital Decoder and the digital audio output socket **AUDIO DIGITAL OUT**. You will then hear the digital sound of the assigned AV input instead of the analogue sound if available.

Connecting devices to the digital audio input

For the digital audio playback from an external device, e.g. the DVD player, you have to feed the digital audio signal to the TV set.

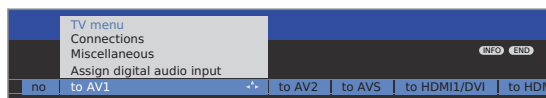
The external digital audio signal can be played back via the upgradable Dolby Digital Decoder in the TV set, via an externally connected digital audio amplifier or Loewe Auro.

- ➡ An external audio amplifier must already be set in the sound components wizard (see page 42).

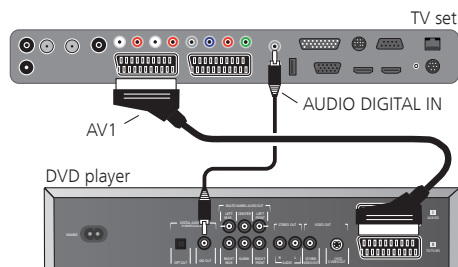


Call **TV menu**.

- ◀ ▶ Select **Connections**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **Miscellaneous**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **Assign digital audio input**,
 - ▼ go to the menu line below.
- ◀ ▶ Select **AV input**.



To connect a DVD player to the digital audio input of the TV set for example, connect the digital output socket of the DVD player (DIGITAL OUT) via a cinch cable to the **AUDIO DIGITAL IN** socket on the TV set.



The DVD player is already logged in at AV1 in the connection wizard at the factory.

If new devices are connected and registered in the connection wizard, the digital audio input **AUDIO DIGITAL IN** is assigned in the connection wizard (see page 38).

Audio connection in HDMI (DVI) devices

External devices with DVI connection

If an external device with DVI interface is connected to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set by an HDMI/DVI adapter, you can connect the digital sound of the external device to the digital audio input socket **AUDIO DIGITAL IN**.

The assignment of the digital audio input to the corresponding HDMI socket of the TV set takes place as described in the column on the left.

If you want to use the analogue sound of the external device, connect this to the **AUDIO IN1** socket.

External devices with HDMI connection

If external devices with HDMI interface are connected to the **HDMI1/DVI** or **HDMI2/DVI** socket of the TV set, no assignment of the audio input is necessary because in HDMI the digital transmission of picture and sound takes place via one connection.

RS-232C interface (upgradable interface)

You can connect either the Loewe Individual Sound Projector or a home network system of different manufacturers (e.g. AMX, Crestron) to your TV set via the RS-232C interface.

For the configuration of the RS-232C interface and further information about the different home networking systems, please contact your dealer.

Operating additional equipment

The direct way to record

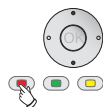
You can programme timer recordings for Digital Recorder or connected recorders available according to the equipment on the TV set. The recording wizard is integrated at several places for programming a recording. You will find further information about recording with Digital Recorder in a separate user guide.

Programming a timer recording with the EPG

- ➡ You are in EPG mode;
if not, press the **EPG button**.



- ▼ ▲ Mark the desired broadcast.



Red button: Call **Timer data**.

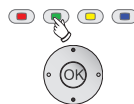
Change or confirm **Timer data** as necessary.

Programming a timer recording via teletext

- ➡ You are in teletext mode;
if not, press the **TEXT button**.



Call the programme pages of the current station.
Change preset page numbers, see page 33.



Green button: Go to the appropriate page.

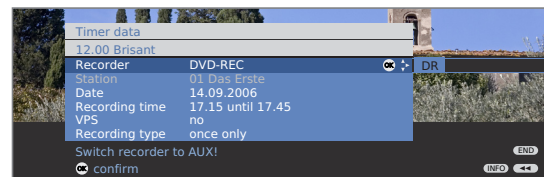
- ▼ ▲ Select desired broadcast,

OK calls **Timer data**.

Change or confirm **Timer data** as necessary.

Enter timer data

Timer data are displayed after selecting the broadcast you want to record. You can change these before confirming.



OK Confirm **Timer data**,
or change if necessary:

- ◀ ▶ Select **Recorder**.

- ▲ ▼ Select **Date**.

Enter the recording date with the **numeric buttons**.

- ▲ ▼ Select **Recording time**.

Enter the recording time with the **numeric buttons**.

- ▲ ▼ Select **VPS**.

- ◀ ▶ Set **yes/no**.

- ▲ ▼ Select **Recording type**.

- ◀ ▶ Set **once only**, **Mon-Fri**, **daily**, **weekly**.

OK confirm the **Timer data**.



Setting possibilities in the Timer data menu:

Recorder Selection of the connected/integrated recorder.

Date Day of recording.

Recording time Time of recording.

VPS Use VPS data, **yes/no**.

(Some stations do not broadcast a VPS signal).

Recording type **once**, **Mon-Fri**, **daily** or **weekly**.

In timer recordings via EPG, **Serial** can also be selected.

- ➡ If you use an external recorder without Digital Link Plus, you have to select the recording source (e.g. AUX) in the recorder. This is also the case when DVB broadcasts are to be recorded. The TV's receiver is used.

- ➡ When you use an external recorder with Digital Link Plus or a comparable system (e.g. P50), this is controlled automatically.

Operating additional equipment

Programming the timer with the timer overview

A timer recording can also be programmed manually.



Call **Timer list**.

You see a list of all previously programmed timers:

Timer list			Mon 31.07./11:28
Mon 14.09.	17:15-17:45	Das Erste	Brisant
Wed 16.09.	14:00-15:50	ZDF	Biathlon-Weltcup
Thu 22.09.	20:15-22:25	3sat	wissen spezial

Buttons: New recording, Change, Delete, END, INFO



Green button: Change timer recording.

Yellow button: Delete timer recording.

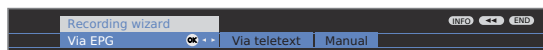
Red button: New timer recording.

Programming the timer manually

➡ The timer list is open.



Red button: Call the **Recording wizard**.



◀ ▶ Select **Manual**,
OK call **Station selection**.

◀ ▶ ▲ ▼ Select station.
OK Calls the **Timer data**.

For time data input, see page 44.

After confirming the timer data, the new recording is transferred to the timer overview.

Explanation of the setting possibilities of the recording wizard:

- Via EPG Timer programming via EPG (see Programming a timer recording with the EPG, page 44).
- Via Teletext Timer programming via Teletext (see Programming a timer recording via teletext, page 44).
- Manual Programming timer manually (see above).

Timer recording with external devices

➡ It is not possible to record HDTV broadcasts with external devices. Use the internal Digital Link Recorder for this if it is installed.

Recorder with Digital Link Plus

If you use an externally connected recorder with Digital Link Plus or a similar system, the TV set and connected recorder exchange data (e.g. compare station lists TV set/recorder or timer data of analogue stations).

Please consult the operating manual of your recorder to find out if your recorder is Digital Link Plus compatible. In addition use only Euro AV cables for the connection between TV set and recorder.

Analogue stations

The timer data are transmitted automatically from the TV set to the recorder after programming is complete. (For DVD recorders in addition the recording quality SQ or EQ is also transmitted.)

The recording is then controlled by the recorder and the recorder tuner is used for reception of the programme.

The recording data are not saved in the timer overview of the TV set. Consequently if you want to change or delete the timer data then you must do so on the recorder.

Digital stations

If you want to record digital stations with an externally connected recorder, then the DVB tuner is used and the TV device takes over control of the recorder. Then the station on the TV set is locked during the timer recording. It is not possible to switch over to another DVB station.

Recorder without Digital Link Plus

If the programmed timer cannot be transmitted to the external recorder (no Digital Link Plus) but supports Digital Link (Loewe-own system), the TV receiver is always used.

Digital Link must be switched on on the recorder. Read the operating instructions of your Loewe recorder.

In addition use only fully wired Euro AV cables for the connection between TV set and recorder.

Analogue and digital stations

You can control the recording from the TV set. The recorder must be set manually to the AV input, to which the TV device is connected. The station on the TV set is locked during the timer recording. It is not possible to switch over to another station.

Copy protection

Copy-protected programmes will not be output on the EURO AV sockets for legal reasons.

Operating additional equipment

PhotoViewer

You can look at photos in standard JPEG format which are saved on a USB stick or a memory card in a card reader. You can also collect photos in a slide show.

Connecting

➡ Certain USB memory media may not be supported by this set under some circumstances.

Plug a card reader (via a USB cable) or a USB stick into the USB port on the TV set (see page 5 and 6).

Use a USB extension cable (available from your dealer) for the USB stick if the USB socket is difficult to access (e.g. wall mounting) or the USB stick is too big to be plugged in.

Starting the PhotoViewer

➡ No photos can be displayed which are available in progressive JPEG format.

A memory card or the USB stick should contain data in standard JPEG format with the file extension ".jpg".

ASSIST

Call the **Assist+** menu.



▲ ▼ Mark **PhotoViewer**,
OK continue.

If only one memory medium is available, the **PhotoViewer** is started. You see the first page of the photo overview (see right column).

If several media are available, select with

◀ ▶ memory medium and then with,
OK start **PhotoViewer**.



Ending the PhotoViewer

Remove used memory medium.

Or:

END

Press **END button** (when photo list is displayed).

Or:

TV RADIO

Press **TV** or **RADIO button**.

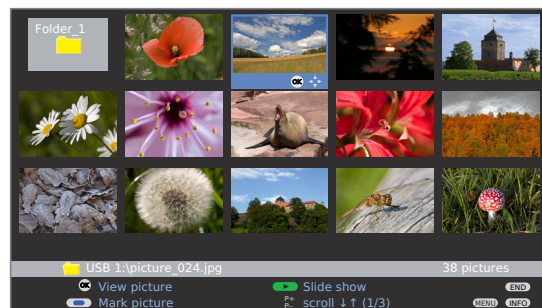
Or:

ASSIST

Press the **Assist button** and call another function in the Assist+ menu.

Viewing photos

➡ The photo overview is displayed.



▲ ▼ ◀ ▶ Mark a photo, page with **P+/P-** if necessary.
OK Display as full picture.



▶ or **P+** next photo.



◀ or **P-** previous photo.



END: Show/hide photo information.



Yellow button: Zoom photo.
Enlargement factors x2, x4, and x8 are possible.
Press the key several times.
At the 4th press return to original size.



Select photo section in zoom mode with ▲ ▼ ◀ ▶ .
Exit the zoom mode to the photo overview with **OK** or the **STOP** button.



◀ ▶ Rotate picture by 90 degrees to the left/right.

➡ Photos shown in a slide show can only be turned to view in the pause mode.



OK or **STOP button:** Back to the photo overview.



Operating additional equipment

Open folder

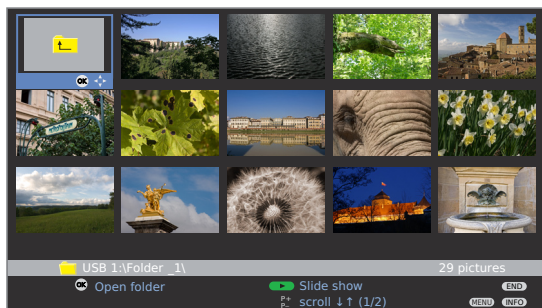
- ➡ Folders will only be displayed if they were created on the memory card / USB stick.



- ▲ ▼ ◀ ▶ Mark a folder in the photo overview.

OK Open folder.

The photos in this folder are displayed.

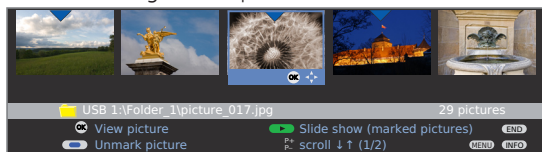


Marking photos for slide show

Mark the photos that you want to display in a slide show.



- ▲ ▶ ▼ ◀ Navigate to a photo.



Blue button: marks photo for slide show.

Start slide show

- ➡ No pictures are marked: All photos of the folder that was just opened will be displayed.
- ➡ Photos marked: Only marked photos will be displayed.



Play button: Start / continue slide show.



OK calls the photo overview.



Pause button: Pause / continue the slide show.



Yellow button: Zoom picture (only in pause mode).



- ◀ ▶ Rotate picture to left/right in 90° steps (only in Pause mode).



▶ or **P+** next photo.



◀ or **P-** previous photo.



STOP button: End slide show.

Calling the PhotoViewer menu

In the PhotoViewer menu you can make picture settings and select the memory medium.

- ➡ The photo overview is displayed.



Call **PhotoViewer menu**.



Explanations of the setting possibilities:

Go to... Within the folder select a photo directly or go to the beginning or end of the folder.

Picture display With **Optimum size** the photo is reduced or enlarged in size so that the screen is optimally filled.
With **Original resolution** each pixel of the photo represents one pixel on the screen. If the photo resolution is higher than that of the screen, then portions of the photo will be cropped.

Picture change Set the display time per photo in a slide show to between 3 and 60 seconds.
The loading time of the photo depends on the photo size, the number of saved files and the transmission speed of the memory medium. Therefore a photo change may take longer than specified.

Picture crossovers There is a choice of four different photo transitions for changing slides. You can also have the photo transitions run in sequence.

Photo info Display additional information about the picture: Recording time and date, resolution and picture size.

Picture settings Set picture adjustment, contrast, colour intensity, colour temperature, brightness, sharpness, DNC.

Sound Select whether or not the previously heard sound is to be heard during the PhotoViewer operation.

Select memory medium Select memory medium from which the photos are to be reproduced. This menu item is only displayed if at least two memory media are available.

Operating additional equipment

MusicBox

You can play music files in MP3 format which are saved on a USB stick or a memory card in a card reader. You can also collect the music titles in play lists.

Connection

- ➡ Certain USB memory media may not be supported by this device.
- ➡ Your memory medium should not exceed a total capacity of 8 GB. Larger memory media may not be supported. The read-in time of the memory medium depends on the stored data volume.
- ➡ The file names must have the extension ".mp3". Alternative specifications such as MP3 Surround or similar are not supported.

Plug a card reader (with a USB cable) or a USB stick into the USB port on the TV set (see page 5 and 6).

Starting the MusicBox

ASSIST

Call **Assist+** menu.



▲ ▼ Mark **MusicBox**,
OK continue.

If there is only one memory medium the **MusicBox** is started with the **MusicBox list** (see right column).

If several media are available select with



◀ ▶ memory medium and then with,
OK start **MusicBox**.

Ending the MusicBox

Remove used memory medium.

END

Or:
Press **END button** (while status window is displayed)

TV RADIO

Or:
Press **TV** or **RADIO button**.

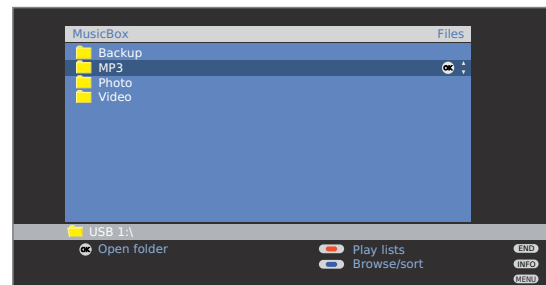
ASSIST

Or:
Press the **Assist button** and call another function in the Assist+ menu.

- ➡ If the MusicBox is ended during playback the MusicBox remembers the appropriate place in the title. If the TV set is not switched off or the memory medium removed in the meantime, the playback continues at this point the next time the MusicBox is called. The MusicBox then starts immediately on the **MusicBox status window** (see right column).

Select/play music

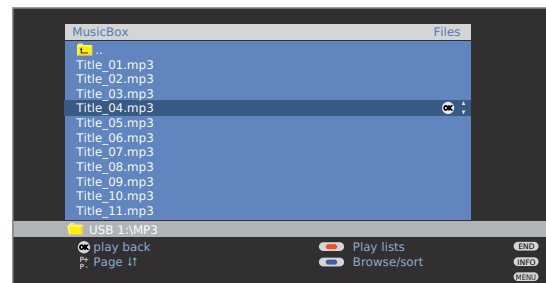
After starting the MusicBox the content of the memory medium, the **MusicBox list**, is displayed.



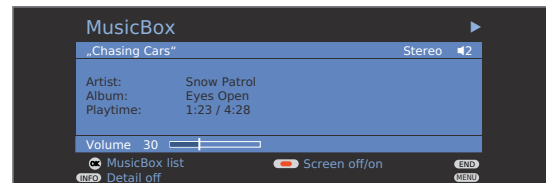
- ▲ ▼ Mark folder, scroll with **P+/P-** if necessary,
OK open selected folder.
You see the music files (titles) and/or sub-folders in the opened folder.

One folder level back:

⬅ ... select and press **OK**.



- ▲ ▼ Mark title, scroll with **P+/P-** if necessary,
OK play marked title.
Then the **MusicBox status window** opens with information about the played title.
- ➡ If the file contains additional information (ID3 tags), the title, singer, album title etc. are displayed.



Operating additional equipment

Functions of the control buttons

➡ Title is played.



STOP button: once: resume stop, twice: stop.



Play button:

After resume stop: continue playing at place where playback was interrupted.

After stop: start playing the first title according to the set sorting.

For playback: start the current title from the beginning.

For pause: Continue playback.



Pause button: pause / continue playback.



▶▶ short: next title, long: wind.



◀◀ short: previous title, long: rewind.

Settings in the MusicBox status window



Red button: Switch off TV screen.

Press **red button**, **INFO** or **OK** to switch back on.



Reduce info window to one line / maximise again.



OK show MusicBox list.

MusicBox – browse/sort

You can browse or sort the contents of your memory medium with the coloured buttons according to certain criteria (file names, titles, artists, albums).

➡ The MusicBox list is displayed.

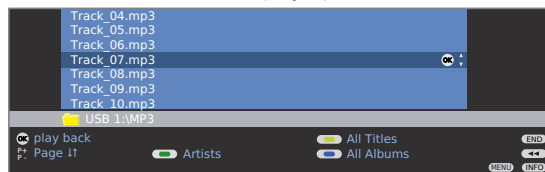


Blue button: call **Browse/sort**.

The MusicBox overview is sorted according to **Files** at the beginning. The sorting is based on the file names of the music files regardless of their ID3 tags.



▲ ▼ Select file/folder and play/open with **OK**.

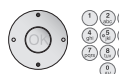
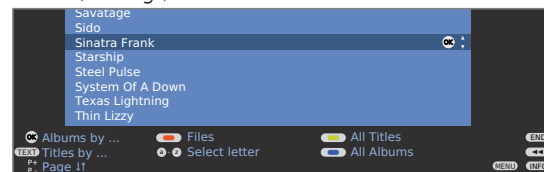


Sort according to artists



Green button: show **Artists**.

All music titles are sorted alphabetically according to artists (ID3 tags).



▲ ▼ Mark artist, scroll with **P+P-** if necessary or enter the initial letter with **numeric buttons** like a mobile phone keypad (see page 15).



OK Albums by ... call artist.

The albums of the selected artist are displayed sorted alphabetically.

▲ ▼ Mark album and select with **OK**.

▲ ▼ Select title in album and play with **OK** in MusicBox status window.



TEXT: Titles by ... call artist.

The titles of the selected artist are displayed sorted alphabetically.

▲ ▼ Select title and play with

OK in MusicBox status window.



Sorting according to titles



Yellow button: Show **All Titles**.

All available titles are sorted alphabetically by ID3 tags and displayed with the appropriate artist.

▲ ▼ Select title and play with

OK in MusicBox status window.



Sorting according to albums



Blue button: Show **All Albums**.

All available albums are sorted alphabetically by ID3 tags and displayed with the appropriate artist.

▲ ▼ Mark album and select with **OK**.

▲ ▼ Select title in album and play with **OK** in MusicBox status window.



Sorting according to files



Red button: Show **file overview**.

Exit sorting



Exit search/sorting. The new sorting is retained in the MusicBox list.

Operating additional equipment

MusicBox – Play lists

You can save and call your music titles in play lists. Change and create play lists as you like.

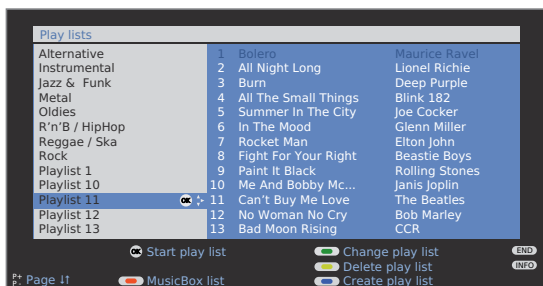
The play lists are created on the memory medium in the common M3U format for simple exchange with the PC.

Call / play play list

► The MusicBox list is displayed.



Red button: Call **Play lists**.



In the play list overview you see the created play lists on the left hand side of the dialog. On the right next to it you see the music files in the marked play list.



▲ ▼ Select play list, scroll with **P+/P-** if necessary.

OK The play list is played in the MusicBox status window starting with the first title. The name of the play list is displayed after the title.



OK The play list is displayed again.

► Change from list selection to title selection.



▲ ▼ Select title, scroll with **P+/P-** if necessary.

OK The play list is played in the MusicBox status window from the marked title.

Create new play list / add title

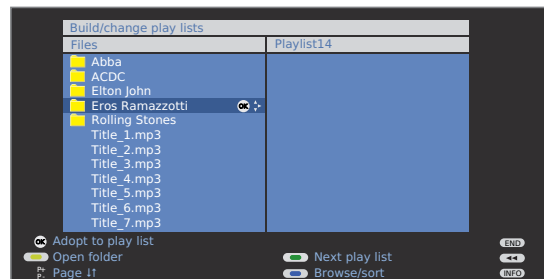
► The play list overview is displayed.

► List selection (left column) must be selected.
If not, change the column with **◀**.



Blue button: Call **Create play list**.

A new empty play list is created. The file selection is visible on the left.



▲ ▼ Mark title/folder, scroll with **P+/P-** if necessary,
OK Add marked title or complete folder contents to the play list.

To go to a sub-folder:



Yellow button: **Open folder**

Change play lists

You can adapt the play lists as required. It is possible to move the titles in the play lists or remove them from the list. The play list can be renamed or deleted completely.

► The play list overview is displayed.



Green button: Call **Change play list**.

► Go to the page of the play list (right column),



Green button: Select play list to be changed.

Operating additional equipment

Rename play lists

➡ Play list (right column) must be selected. If not, change column with ▶.



Blue button: Starts **Rename play list**.



Numeric buttons: Enter new name (same procedure as for rename station, see page 26).



OK Save new name.

Move titles in the play lists / change order

➡ Play list (right column) must be selected.



▲ ▼ Mark title to be moved.



Yellow button: Starts **Move title**.



▲ ▼ Select insertion position at which the marked title is to be inserted.

OK Move title.

Remove titles from play lists / clear play list

➡ Play list (right column) must be selected.



▲ ▼ Mark title to be deleted.

OK Remove marked title from play list.

Or:



Red button: Starts **Clear play list**.



OK Confirm clearing play list.

Delete play list from memory medium

➡ The play list overview is displayed.



▲ ▼ Mark play list to be deleted.



Yellow button: Starts **Delete play list**.



OK Confirm delete play list.

Exit play list overview

➡ The play list overview is displayed.



Red button: Call **MusicBox list**.

Or:



END: Call MusicBox status window.

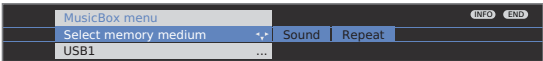
MusicBox menü

In the MusicBox menu you make sound settings, can select the memory medium and set the repeat mode.

➡ MusicBox must be activated.



Call **MusicBox menu**.



Explanations of the setting options:

Select memory medium Select memory medium from which the audio files are to be used. This menu item is only displayed if at least two memory media are available.

Sound The settings correspond to the sound settings in TV mode (page 20).

Repeat Titles can be repeated in two ways:

Title ⏮:

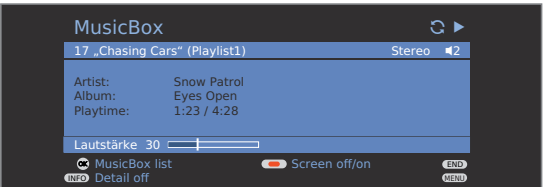
Only the played title is repeated.

Folder or Play list ⏮:

Only the titles from the currently selected folder or, if play list is activated, the current list are repeated.

Repeating is endless until the function is switched off in the MusicBox menu.

The appropriate symbols for the repetition are displayed in the top right of the info window.



Operating additional equipment

Operating Loewe equipment

Using the remote control for the TV mode of the TV set

TV Press the **TV** button, the display above it will light for approx. 5 seconds.

Using the remote control for a recorder

REC Press the **REC** button, the display above it will light for approx. 5 seconds.

Using the remote control for a DVD player

DVD Press the **DVD** button, the display above it will light for approx. 5 seconds.

Using the remote control for the radio mode of the TV set

RADIO Press the **Radio** button, the display above it will light for approx. 5 seconds.

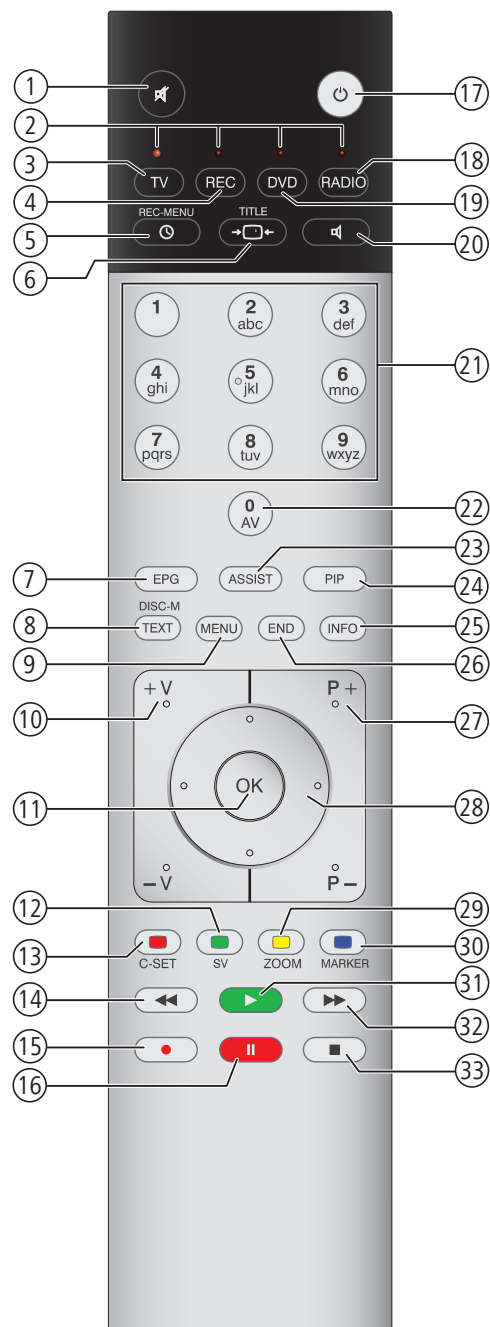
As long as a button is pressed, the display of the selected operating mode lights up (TV – REC – DVD – RADIO). This allows you to check which operating mode the remote control is set to every time you press a button.

Setting the remote control to other Loewe devices

The specified button combination must be kept pressed (for approx. 5 s) until one of the LEDs flashes twice.

Device	Button combination
Loewe TV	TV + 7 p q r s *
Loewe Centros 1102 / 1172	REC + 1
Loewe Centros 2102 HD / ViewVision	REC + 2 a b c *
Loewe ViewVision DR+ / DVB-T	REC + 3 d e f
Loewe ViewVision 8106 H	REC + 0 A V
Loewe Auro 2216 PS / 8116 DT	DVD + 4 g h i *
Loewe Xemix 6222 PS	DVD + 5 j k l

The devices marked by * are preset in the remote control supplied with the TV set.



Operating additional equipment

Functions for the Loewe DVD player (Auro 2216 PS, 8116 DT)

- ① Sound off/on
- ② LED indicator for current operating mode
- ③ Switch over to operate TV set
- ④ Switch over to operate Recorder
- ⑤ Sleep timer
- ⑥ Set TV picture format; RADIO: Mono/Stereo
- ⑦ DISC: Repeat; RADIO: display RDS name/frequency of station
- ⑧ DISC: User interface of loaded DVD
- ⑨ Show/hide menu; MENU: close window
- ⑩ **V-/V+** Volume down/up
- ⑪ DISC: Title/Chapter overview; RADIO: station table
MENU: confirm menu selection
- ⑫ Green button: Title/Chapter selection
- ⑬ Red button: DISC: camera position
- ⑭ DISC: short: beginning of chapter/title previous chapter;
long: search back;
RADIO: short: fine tuning back long: search back
- ⑮ no function
- ⑯ Pause; single frame; slow motion
- ⑰ Switch on/off - on stand by
- ⑱ short: TV Radio Digital; long: Auro FM/AM-Radio
- ⑲ Switch over to operate Auro
- ⑳ Select sound format
- ㉑ DISC: select chapter/title; RADIO: select stored station;
MENU: enter digits
- ㉒ MENU: enter numbers or letters
- ㉓ DISC: Repeat A-B; RADIO: FM/AM-mode
- ㉔ Select external audio source
- ㉕ DISC: menu bar
MENU: context help
- ㉖ DISC: Status display; RADIO: station table
MENU: hide menu
- ㉗ **P+/P-** DISC: next/previous chapter; RADIO: station forward/back
- ㉘ **▲ ▼** DISC: chapter up/down; MENU: select up/down;
◀ ▶ DISC: search back/forward; MENU: select left/right
- ㉙ Yellow button: Zoom
- ㉚ Blue button: Set marker
- ㉛ Playback
- ㉜ DISC: short: next chapter/title; long: search forward
RADIO: short: fine tuning forward; long: search forward
- ㉝ Stop

Functions for the Loewe DVD recorder (Centros 1202, 2102 HD, ViewVision DR+)

- ① TV Sound off/on
- ② LED indicator for current operating mode
- ③ Switch over to operate TV set
- ④ Switch over to operate Recorder
- ⑤ Timer recording menu; timer recording list menu
- ⑥ STOP: Title List; PLAY: Edit thumbnail;
CARD: Photo-, Music-, Film-Mode
ViewVision DR+: Timeshift Mode
- ⑦ STOP: Call AV selection (AV1-AV4,DV,TV)
ViewVision DR+: PLAY: skip 15 Sec.
- ⑧ User interface of loaded DVD
MENU: original / playlist
- ⑨ Show/hide menu
- ⑩ **V-/V+** TV Volume down/up
- ⑪ Status display (TV, DVD)
MENU: confirm the menu selection
- ⑫ Green button: ShowView menu
- ⑬ Red button: new chapter marker
- ⑭ PLAY: press short: Start of current chapter/previous chapter;
press long: search back; PAUSE: press short: slow motion back
- ⑮ Record
- ⑯ Pause /single frame
- ⑰ Switch on/off - on stand by
- ⑱ TV Radio Digital
- ⑲ Switch over to operate DVD-Player
- ㉑ TV Sound menu
- ㉒ STOP: Select station directly
MENU: enter numbers or letters
- ㉓ MENU: enter numbers or letters
ViewVision DR+: STOPP: Call AV selection
- ㉔ Card Reader operation
ViewVision DR+: „Home“ menu
- ㉕ PIP (picture in picture)
- ㉖ Info; PLAY: menu bar
- ㉗ MENU: hide menu
- ㉘ **P+/P-** PLAY: Next chapter; STOP: Select station up/down
- ㉙ MENU: select/set
- ㉚ Yellow button: Zoom
- ㉛ Blue button: DISC: short: Set marker; long: Marker search
- ㉜ Playback
- ㉝ PLAY: Press short: next chapter; Press long: search forward
PAUSE: Press short: slow motion forward
- ㉞ Stop

Operating additional equipment

Rotating the TV set (upgradable interface)

Your TV set can be upgraded with the connection for a rotating foot control. If the set is assembled with a Loewe stand with motor drive, you can align it to suit your sitting position using the remote control.

- ➡ A motor unit is connected.
- ➡ In normal TV mode, without other displays.



- ◀ ▶ Rotating the TV set.

Do not place any objects in the rotation range of the TV set that could obstruct the rotation or that could be knocked over by the rotation movement.

Setting the range of rotation

You can determine the range of rotation (maximum +/- 40°) of the TV set by setting the maximum right and left stop.

(MENU)

Call **TV menu**.



- ◀ ▶ Select **Settings**,
▼ go to the menu line below.

- ◀ ▶ Select **Miscellaneous**,
▼ go to the menu line below.

- ◀ ▶ Select **Rotate TV**,
▼ go to the menu line below.

- ◀ ▶ Select **Basic adjustment**,
OK calls the basic adjustment.



▶ **Basic adjustment (right)**

Turn your TV set as far to the right as the installation position allows. This will be the maximum right rotation position in future.

OK confirms basic adjustment to right.



◀ **Basic adjustment (left)**

Rotate your TV set as far to the left as the installation position allows. This will be the maximum left rotation position in future.

OK ends the basic adjustment.

(END)

Close the menu.

Specifying the switch off position

This is where you specify the position that the TV will take when it is switched off. In order for the TV set to return to the determined switch-off position when switching it off, this must be activated (see below).

(MENU)

Call **TV menu**.

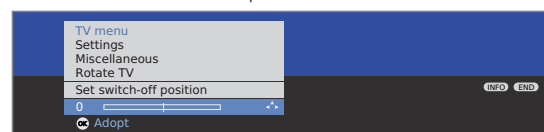


- ◀ ▶ Select **Settings**,
▼ go to the menu line below.

- ◀ ▶ Select **Miscellaneous**,
▼ go to the menu line below.

- ◀ ▶ Select **Rotate TV**,
▼ go to the menu line below.

- ◀ ▶ Select **Set switch-off position**,
OK calls Set switch-off position.



- ◀ ▶ Set the desired switch-off position.
The TV set rotates in the process.

OK Save the set position as the switch-off position.

(END)

Close the menu.

Activating the switch-off position

(MENU)

Call **TV menu**.



- ◀ ▶ Select **Settings**,
▼ go to the menu line below.

- ◀ ▶ Select **Miscellaneous**,
▼ go to the menu line below.

- ◀ ▶ Select **Rotate TV**,
▼ go to the menu line below.

- ◀ ▶ Select **Activate switch-off position**,
▼ go to the menu line below.

- ◀ ▶ Select **yes**.

(END)

Close the menu.

If the TV set is switched off with the on/off key on the remote control or with the switch integrated in the display then it will turn to the defined switch-off position. When it is switched back on, it returns to the position last set.

Troubleshooting

Problem	Possible cause	Remedy
All menus are displayed in the wrong language .	The menu language was set incorrectly.	Set the menu language: Press the INFO button in TV mode (Index) . Mark the first key word and call it with OK . Then select the language and confirm it with OK .
In the TV menu , Connections cannot be called (displayed in grey).	A timer recording is in progress.	Wait until the timer recording ends or delete the timer recording (page 45).
The control functions of the Loewe Recorder and the Timer are not working or are not working properly	a) The Digital Link function is not activated or not possible in the recorder. b) EURO-AV cable is not connected. c) Recorder is not logged in.	a) Activate Digital Link in the recorder (see operating instructions of the recorder). b) Connect EURO-AV cable (page 37). c) Register recorder (page 37).
General problems when connecting external devices via an AV input .	a) The device is not logged in to the connection wizard or is connected differently than is shown in the connection diagram . b) The AV standard is set incorrectly. c) The signal type is set incorrectly.	a) In the connection wizard (TV menu → Connections → New devices/modifications) compare the connection diagram with the actual installation and connect as illustrated (page 37). b) Set the correct standard (page 17). c) Set the correct signal type (page 37). If for AV standard or AV signal "Automatic" is set then this can cause errors to be detected with signals that do not comply with standards. In this case standard and signal must be set according to the information in the operating manual of the external device.
The connection of a decoder does not function or does not function properly.	a) The signal is not decoded because the correct decoder stations have not been selected in the connection wizard . b) In decoder mode the sound is missing because the wrong decoder sound has been assigned in the connection wizard .	a) Follow the instructions in the connection wizard (TV menu → Connections → New devices/changes) and select the appropriate decoder transmitter (page 37). b) Follow the instructions in the connection wizard and select the right audio source (Decoder, TV oder Autom.) (page 37), see also decoder instructions.

Troubleshooting

Problem	Possible cause	Remedy
Digital Link Plus does not work.	a) EURO-AV cable is not fully wired (pin 10 not wired). b) Some recorders can only adopt stations during the initial installation of the TV set.	a) Replace the EURO-AV cable. b) Restore the recorder to the as-delivered state (see recorder's operating manual).
With Teletext various character sets are displayed incorrectly.	The wrong character set has been set in the Teletext menu.	Set the right character set: Teletext menu → Settings → Character set : Select Standard or the appropriate character set.
No sound via the external digital audio amplifier .	a) The external digital audio amplifier does not support the selected sound format (Dolby Digital, dts, MPEG). b) TV set and external digital audio amplifier are not connected with each other.	a) Set PCM stereo on the DVD player in the sound selection. For DVB stations on the TV set switch to stereo in the status display (END) – language/audio selection (Green button) . b) Connect AUDIO DIGITAL OUT from the TV set to a Digital-In input of the external digital audio amplifier and select the appropriate input to this.
The picture of a connected external recorder is visible but the timer cannot be called.	The device is not registered in the connection wizard or is connected differently to shown in the connection diagram .	In the connection wizard (TV menu → Connections → New devices/modifications) compare the connection diagram with the actual installation and connect as illustrated (page 37).
The picture of a connected external recorder is visible but the error message no recorder available is still output.	The device is not registered in the connection wizard or is connected differently to shown in the connection diagram .	In the connection wizard (TV menu → Connections → New devices/modifications) compare the connection diagram with the actual installation and connect as illustrated (page 37).
Photo on the USB stick is not displayed correctly in the PhotoViewer or a "?" appears.	The photo is not available in a displayable format.	Convert photo file into a standard JPG format on the PC.

Technical data

General data

Type	Connect 32	Connect 37	Connect 42
Article number	67406xxx	67403xxx	67407xxx
Dimensions for device without stand (W x H x D) in cm	83,1 x 54,8 x 12,1	95,9 x 63,2 x 12,1	106,9 x 69,4 x 12,1
Dimensions for device with stand (W x H x D) in cm	83,1 x 59,4 x 20,8	95,9 x 67,8 x 24,4	106,9 x 74,1 x 27,4
Weight for device without stand (approx.) in kg	17,6	20,7	31,2
Weight for device with stand (approx.) in kg	19,6	23,0	33,7
Display	HD-LCD technology	FHD-LCD technology	FHD-LCD technology
Picture diagonal in cm/picture format	80 / 16:9	94 / 16:9	106 / 16:9
Resolution in pixels	1366 x 768	1920 x 1080	1920 x 1080
Dynamic contrast ratio	7,000:1	6,500:1	8,500:1
Static contrast ratio	1,300:1	1,000:1	1,300:1
Viewing angle horizontal and vertical	176°	178°	178°
Power consumption (EN 62087) in operation (watt) in standby (watt)	80 / 85 (Media) / 95 (Media DR+) 1,2	95 / 100 (Media) / 120 (Media DR+) 1,2	115 / 120 (Media) / 130 (Media DR+) 1,2
Ambient temperature (Celsius)	5° – 35°		
Relative humidity (non-condensing)	20 – 80%		
Air pressure	800 – 1114 hPa (0 – 2000 m above sea level)		

Electrical data

Chassis designation:..... L 2710
Power supply:220 V – 240 V/50–60 Hz
Tuner:..... VHF/UHF/cable/hyperband
Range:..... 45 MHz to 860 MHz
Station storage locations incl. AV and radio:.....4000
TV standards:..... B/G, I, L, D/K, M, N
Colour standard:..... SECAM, PAL, NTSC, NTSC-V, PAL-V (60 Hz)
Sound standard Mono/Stereo/2-Ton/Nicam B/G, I, L
Audio nominal power (sine):..... 2 x 20 watt
Lower limit frequency of the speakers 90 Hz
Teletext: TOP/FLOF Level 2.5
Page memory..... 2000
Digital teletext (only in UK / IRL with active MHEG-5 software)..... MHEG-5

Connections (max. equipment)

Mains socket: Supply voltage
EURO-AV 1 Video IN:..... Y/C (S-VHS/Hi 8)
..... CVBS (VHS/8 mm)
Video OUT:..... CVBS (VHS/8 mm)
..... Y/C (S-VHS/Hi 8)
Audio IN:..... L/R
Audio OUT: L/R
EURO-AV 2 Video IN:..... Y/C (S-VHS/Hi 8)
..... CVBS (VHS/8 mm)
..... RGB
Video OUT:..... CVBS (VHS/8 mm)
..... Y/C, (only with SVHS Link Plus)
Audio IN:..... L/R
Audio OUT: L/R

Jack 3.5 mm: Headphones 32-2000 ohm
Mini-DIN (AVS) Video IN: Y/C (S-VHS/Hi 8)
..... CVBS (VHS/8 mm)
Cinch (yellow) Video IN: CVBS (VHS/8 mm)
Cinch (white/red) Audio IN: L (white) / R (red)
2 x IEC socket 75 Ohm/5 V/80 mA: Antenna/cable/DVB-T/C ⁽¹⁾
2 x F socket 75 Ohm 13/18 V/350 mA: ANT-SAT DVB-S/S2 ⁽¹⁾
Cinch Audio IN max. 2Vrms: Centre
2 x Cinch AUDIO IN1: L (white) / R (red)
Jack 3.5 mm AUDIO IN2: L/R
2 x Cinch AUDIO OUT (level configuration-dependent): ..L (white) / R (red)
Cinch COMPONENT IN:..... Cb/Pb signal
Cinch COMPONENT IN:..... Cr/Pr signal
Cinch COMPONENT IN:..... Y signal
Cinch Audio Digital IN (SPDIF): Digital audio
Cinch Audio Digital OUT (SPDIF):..... Digital audio
SUB-D AUDIO LINK:..... Multi-sound ⁽¹⁾
SUB-D PC IN: PC/STB video signal
Mini-DIN RS-232C: Serial interface ⁽¹⁾
Mini-DIN SERVICE: Service/L-Link
2 x USB CONTROL: Rotating stand control ⁽¹⁾
2 x HDMI USB 2.0: Standard JPEG/MP3 files ⁽¹⁾
CI-Slot Digital Video/Audio IN
Ethernet (8P8C) Type A 19pole Standard 1.3: Digital video and audio
SMA Common Interface: Slot for CA module
..... Network interface ⁽²⁾
..... Connection additional antenna ^{(2) (3)}

⁽¹⁾ Equipment variants and upgrade possibilities, see page 59.

⁽²⁾ only for sets with Network Mediaplayer.

⁽³⁾ not for Connect 32 Media.

Accessories

Setup possibilities



Table Stand



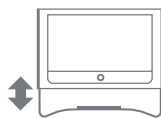
Wall Mount WM 54



Floor Stand 4 ⁽¹⁾



Floor Stand 5 MU ^{(1) (2)}



Floor Stand Trapeze

Connect 42

- Table Stand (delivery status)
- Wall Mount WM 54
- Floor Stand 4 ⁽¹⁾
- Floor Stand 5 MU ^{(1) (2)}
- Floor Stand Trapeze C42

Connect 37

- Table Stand (delivery status)
- Wall Mount WM 54
- Floor Stand 4 ⁽¹⁾
- Floor Stand 5 MU ^{(1) (2)}
- Floor Stand Trapeze C37

Connect 32

- Table Stand (delivery status)
- Wall Mount WM 54
- Floor Stand 4 ⁽¹⁾
- Floor Stand 5 MU ^{(1) (2)}
- Floor Stand Trapeze C32

⁽¹⁾ Only in conjunction with appropriate adapters that are sold separately.

⁽²⁾ Only in conjunction with Loewe Individual Sound Projector.

Accessories

Loewe Equipmentboard:

When using a Loewe Connect in connection with the Floor Stand Trapeze the Loewe equipment board offers the possibility of integrating a DVD player in the installation solution for example.

Loewe VESA-Adapter:

The Loewe VESA adapter offers you the possibility of also using your TV set for other VESA-compatible fastening devices.

Please only use the original LOEWE VESA adapter for your TV set and use the VESA-compatible fastening devices recommended by Loewe.

Loewe Individual Sound:

Your TV set can be perfectly supplemented by the Individual Sound speaker system in connection with the Audio AC3 / dts upgrade kit. Numerous speaker combination possibilities with standard speakers, staellite speakers and a subwoofer can be implemented.

Loewe Individual Sound Projector:

With the Loewe Individual Sound Projector you can easily enjoy digital Surround Sound without expensive installation and connection of several speakers. The Sound Projector is easy to set and operate.

Loewe DVD Recorder:

The DVD recorders from Loewe feature forms and colours which match the Loewe TV sets, an adapted user operation and technology. Combined these devices form a system that offers many advantages.

Loewe Blu-ray Player:

With the Loewe Blu-ray Player "BluTech Vision" you are ideally equipped for the successor format to DVD. With the Loewe system integration you control BluTech Vision and your Loewe TV set simultaneously with the Assist+ remote control.

Subject to availability.

Accessories

Equipment variants and upgrade kits

Upgrade kit Digital Single Satellite Tuner (Art.No. 89565.081):

You can receive digital satellite and HDTV stations with the upgrade kit. The tuner is integrated in the TV set and is operated with the remote control/menu control.

You will find the upgrade options for your set in the table.

Upgrade kit Digital Single Satellite Tuner (Art.No. 89565.080):

You can have two digital satellite tuners installed in sets with Digital Recorder. This enables reception of digital satellite and HDTV stations and extends the display of PIP and the recording possibilities of Digital Recorder for two digital satellite stations.

You will find the upgrade options for your set in the table.

Upgrade kit Audio AC3 / dts (Art.No. 89781.080):

A fully fledged Dolby Digital Decoder can be integrated in the TV set with the Audio AC3 / dts upgrade kit. A surround system such as Loewe Individual Sound can then be connected.

Adapter and cables:


AUDIO LINK adapter cable	0,25 m	Loewe Art.No. 89954.001
AUDIO LINK cable	1,5 m	Loewe Art.No. 89952.001
AUDIO LINK cable	6 m	Loewe Art.No. 89952.002
AUDIO LINK cable	10 m	Loewe Art.No. 89952.003
Cubic connector cable	6 m	Loewe Art.No. 90418.930

Upgrade kit Motor Unit/RS232C (Art.No. 89634.080):

The Motor Unit / RS232C upgrade kit allows you to stand the TV set on a table or floor stand solution with a motor-controlled rotating foot. Then the Loewe Individual Sound Projector or a home network system can also be connected to the TV set (see page 43).

TV type	Connect 32			Connect 37			Connect 42		
Article number	67406x80	67406x82	67406x42	67403x80	67403x82	67403x42	67407x80	67407x82	67407x42
Digital Recorder DR+	—	—	●	—	—	●	—	—	●
Media Network	—	●	●	—	●	●	—	●	●
Single DVB-T/C	●	●	—	●	●	—	●	●	—
Dual DVB-T/C	—	—	●	—	—	●	—	—	●
USB-Anschluss	1x	2x	2x	1x	2x	2x	1x	2x	2x
Single DVB-S2 Art.Nr. 89565.081	○	○	○	○	○	○	○	○	○
Twin DVB-S2 Art.Nr. 89565.080	—	—	○	—	—	○	—	—	○
Audio AC3 / dts Art.Nr. 89781.080	—	○	○	—	○	○	—	○	○
MU/RS232C Art.Nr. 89634.080	—	○	○	—	○	○	—	○	○

- ex factory
- available as a upgrade kit
- not available

 The code number **3001** cancels a secret code and thus the parental lock. Please keep in a safe place.

Glossary

0-9

24p movie display: Modern movie makers produce movies with 24 (full) pictures per second (24p), conventional TV sets (and most DVDs) show 50 (half) pictures per second. To play the movie, the original number of pictures is doubled and the film sped up. This is optimal for sports broadcasts but for quieter movies it distorts the picture quality.

A

Active antenna: An antenna with its own power supply or amplification which can improve the reception in areas with a poor coverage.

AV socket: Socket for audio and video signals.

AV sources: Audio/video source.

AVS: Audio/video sockets on the side of the TV set (cinch and mini-DIN).

B

Band: Name for a transmission range.

C

CA module: The **Conditional Access module** contains the coding system and compares the transmitted code with the one on the **Smart Card**. If they match, the appropriate stations or programmes are decoded.

Cinch cable: Cable for transmitting audio or video.

CI slot: See **Common Interface**.

Common Interface: The Common Interface (CI slot) is a standardised interface. By inserting suitable decoding modules (**CA modules**) and a **Smart Card** coded digital programmes can be used.

Component IN: Connection in which the video signal is transmitted via three separate cinch connections. It is made up of the brightness signal "Y" and the colour difference signals "Pb" and "Pr". **YPbPr** is the original analogue version of the digital **YCbCr** in which video data saved on the DVD as well as transmitted via satellite, cable or antenna in DVB are colour coded.

Conditional Access module: See **CA module**.

D

Decoder: Analogue, coded TV signals are passed through a decoder and made visible again.

Digital Link: System for controlling recorders (for video and DVD recorders from Loewe) via the Euro AV sockets of the Loewe TV set with concealed setup. Controlling the recorder for timer recordings.

Digital Link Plus: System for controlling recorders according to protocol 50. For analogue stations the station and timer data are transmitted via the EURO-AV socket to the recorder. The timer recording is executed exclusively by the recorder. There is a different designation with different manufacturers.

Dolby Digital: Digital multi-channel audio. The digital standard for high quality home movie systems. The individual channels are broadcast separately in this standard. The three front channels right, left and centre, the two surround channels right and left and the external subwoofer channels are called a 5:1 signal. Another term for Dolby Digital is AC3.

Digital Link HD: System for controlling devices via the HDMI connection of the Loewe TV set in the case of concealed installation.

Dolby Pro Logic: Analogue multi-channel audio. Converts a Dolby-coded stereo signal into a surround sound. This usually contains four channels (front left, centre, front right, surround channel). A special subwoofer channel is not generated in this method.

Dolby Pro Logic II: Analogue multi-channel audio. Dolby Pro Logic II is a further development of **Dolby Pro Logic**. This method generates a 6-channel spatial sound from a stereo or Pro-Logic signal (front left, centre, front right, surround left, surround right, subwoofer).

Dolby Surround: Analogue multi-channel audio system that brings four audio channels down to two audio tracks with the aid of a matrix coding.

Dolby Virtual Speaker: The Dolby Virtual Speaker technology simulates the surround playback of a real 5.1-channel playback with only two speakers.

DTS: Digital Theater Systems; Digital multi-channel audio.

DVB-C/-S/-T: Digital Video Broadcasting stands for digital television. Technical DVB is the standardised process for transmitting digital content (television, radio, multi-channel audio, room sound, **EPG**, Teletext, and other supplemental services) through digital technology. **C** stands for transmission via cable, **S** for distribution via satellite and **T** for terrestrial or antenna distribution.

DVD: Abbreviation of Digital Video Disk and later Digital Versatile Disk.

DVD-Preceiver: Combi-device of DVD player and radio without integrated amplifier.

DVI: Digital Visual Interface, is an interface for transmitting digital video and graphic data (without audio).

Dynamic contrast ratio: Here the light intensity of the display is adapted in case of a high black portion in the picture. The so-called backlights are dimmed automatically and the contrast ratio increases temporarily, i.e. dynamically.

E

Electronic Programme Guide: See **EPG**.

EPG: Electronic Programme Guide is the electronic variant of a printed TV guide. Using the EPG you can watch the TV programme of the TV station, transfer the appropriate data. The list of programmes contains the title, beginning and end and duration of the programme. In addition brief descriptions of the content of the programmes is also displayed.

Euro AV socket: Interface for connecting video devices to a TV set. This socket is also referred to as Scart socket.

Glossary

F

FLOF: Full Level One Facilities. Teletext system in which names and numbers of the jump destinations are transmitted in the bottom line on every page. This guides the reader to related topics for example. An information about which pages exist and which pages have sub-pages is not available in FLOF.

H

HDCP: High-bandwidth Digital Content Protection. Coding system provided for the **DVI** and **HDMI** interfaces for secure transmission of audio and video data.

HDMI: High Definition Multimedia Interface is a newly developed interface for full digital transmission of audio and video data.

HDTV: High Definition Television is an umbrella term that covers a number of high resolution television standards.

HD-Ready: A quality seal that is awarded to products that are capable of displaying high-definition television (**HDTV**).

High band and Low band: Transmission ranges for satellites.

I

ID3 tags: Additional information for MP3 and WMA audio files. Information about the singer, title, album and album cover can be saved here among other things. These data are edited on the PC by the ID3-Tag-Editor.

J

JPEG: Joint Photographic Experts Group is a committee which has developed a standard method for the compression of digital photos. This method JPEG (**JPG** for short), named after the committee, is a commonly used graphic format for photos.

JPG: See **JPEG**.

L

LAN: Abbreviation for Local Area Network. Mainly used as a designation for networks with wiring (Ethernet).

LCD: Liquid Crystal Display.

LCN: Logical Channel Numbers. In stations with LCN, the channel location number belonging to the station is also transmitted by the provider. The stations are sorted according to these channel location numbers.

L-Link: Intelligent system connection between Loewe devices for the automatic exchange of information. Makes the operation of TV and Loewe system components even more convenient.

LNB/LNC: The crucial electronic component of a satellite antenna is referred to as an LNB (Low Noise Block Converter). It is mounted in the focal point of a parabolic antenna. The designation **LNC** (Low Noise Converter) indicates that conversion to lower intermediate frequency takes place. The supplemental block in the LNB refers to the fact that a whole frequency range (a block) is converted in each case.

M

MHEG-5: Digital teletext standard of the Multimedia and Hypermedia Expert Group. At the moment only available in United Kingdom and Ireland.

Modulator: Transmitter in the video or DVD recorder so that the devices can receive signals via the tuner of the TV device.

Mono: Single-channel audio.

MPEG: Digital compression process for video.

MP3: Data format for compressed audio files.

N

Network ID: NID refers to the so-called programme ID number, also known as network ID – a number between 0 and 8191. This specification is necessary in specific cable networks of some countries. Then only DVB signals of this station network are searched for.

NICAM: Audio standard. Is used in Denmark, England, France, Sweden, and Spain.

NTSC: American colour standard.

P

Page Catching: For teletext, refers to going to and calling a page number.

PAL: European standard.

PCM: Pulse Code Modulation for digital sound.

Picture in Picture: See **PIP**.

PIP: Picture in Picture; a function which displays two pictures on the screen.

Pixel: Denotes both the smallest unit of a digital graphic grid and its display on a screen with grid control.

Pixel error: A pixel error is a defective pixel, usually on an LCD. Pixel errors may be caused by production errors. They are expressed for example by a constantly lit pixel or a constantly black pixel. Single defective pixels however are excluded from a guarantee.

Progressive JPEG: Progressive **JPEGs** are built up gradually. The quality of the picture increases progressively during the loading process.

ProScan/Progressive Scan: Progressive Scan (abbr. PS) or full picture method is a technique in the picture build-up of monitors, TV sets, beamers, and other display devices in which the output device is not sent line interlaced half pictures – unlike in the interlace technique – but real full pictures.

R

RGB: Colour signals red, green and blue.

Glossary

S

Satellite tuner: Receiver for satellite programmes.

SDTV: Standard Definition TeleVision.

Set-Top-Box: Set-Top-Box (STB for short) refers to a device in entertainment electronics which is connected to another device, usually a TV set, and offers the user additional functional options.

SECAM: French standard.

Signal input groups: Depending on the applied signal, the signal sources are divided into different groups. All signal input groups with their corresponding signal types are the possible inputs are listed below.

TV analogue:

Signal type: FBAS, YC, RGB-SD (480i/576i), Component-SD (480i/576i)
Input: Tuner analogue, AV1, AV2, AVS, COMP. In

TV digital:

Signal type: DVB-SD, HDMI-SD (480i/576i)
Input: Tuner digital, HDMI1/DVI, HDMI2/DVI

HD analogue:

Signal type: RGB-HD (video mode: e.g. 1920x1080, 1280x720),
Component-HD (video modes: e.g. 1920x1080, 1280x720)
Input: COMP. IN, PC IN

HD digital:

Signal type: DVB-HD, HDMI-HD
Input: Tuner digital, HDMI1/DVI, HDMI2/DVI

PC:

Signal type: RGB
(PC modes: e.g. 800x600, 1024x768, 1280x1024, 1360x768)
Input: PC IN

PhotoViewer:

Input: USB

Signal strength: Strength of the received antenna signal.

Signal quality: Quality of the incoming antenna signal.

Smart Card: The Smart Card is an electronic chip card issued by the respective programme provider or by the certification-free Pay-TV operators. It contains the code which is decoded by the **CA module**.

Static contrast ratio: Describes the difference between the brightest and darkest picture display.

Stereo: Dual-channel audio.

Switch voltage: Video devices specify this voltage to switch the TV device to playback.

Symbol rate: Describes the transmission speed for data transmission.

T

Terrestrial: In data transmission a wireless transmission that does not use satellites as intermediate station is referred to as terrestrial.

TFT: Thin Film Transistor. One widely distributed application is control of liquid crystal flat screens, for which a signal transistor is used for each pixel. This design of display is also referred to as active matrix, however it is frequently also referred to as TFT display.

TOP: Table of Pages. Teletext system in which the individual pages are divided into topics. The blocks stand for a higher hierarchy level (e.g. News, Sport, Programmes) and the groups for the level below (e.g. Home/Abroad, Football/Tennis). Abbreviations can be assigned to the pages which are displayed in colour on the bottom line and can be selected with the four coloured buttons on the remote control. Information is also transmitted about which pages exist and which of them have sub-pages.

Tuner: Another term for receiver.

U

USB: Universal Serial Bus. Serial bus system for connecting external devices (USB card reader, USB stick).

V

VGA: PC interface for connecting a monitor.

VPS: The Video Programme System (VPS) is a signal which transmits some (but not all) TV stations in the blanking gap. The signal is used by video and DVD recorders when recording programmes to react to delays in start time, programme changes and excesses of the planned programme time.

W

WLAN: Abbreviation for Wireless Local Area Network. Also referred to in brief as wireless network.

Y

Ycc/Ypp: Colour standards for **Set Top Boxes**.

YCbCr: Digital colour model, see **COMPONENT IN**.

YPbPr: Analogue colour model, see **COMPONENT IN**.

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